

Data Limitations and Validation Report
for Environmental Groundwater Samples

Collected from the Argonne National Laboratory - West

Scoville, ID

Case No. 93102505

SDG. No. 93102505

Target Analyte List (TAL) Metals plus Tin less Mercury and Cyanide

Two Aqueous Samples

Validated by:



Ricky C. DePaul
Data Validation
Reviewer

Approved by:


3-6-96

Joseph A. Samchuck
Data Validation Quality
Assurance Officer

A. TITLE:

INORGANIC DATA LIMITATIONS and VALIDATION REPORT

Project Site: Waters from Argonne National Laboratory - West
Sample Type: Aqueous samples
Analysis Type: TAL Metals plus Tin less mercury and cyanide
Case No.: 93102505
SDG. No.: 93102505

B. INTRODUCTION:

A complete review, following the procedures outlined in SMO-SOP-12.1.5¹, was performed on the data package, labeled Case No. 93102505, SDG# 93102505, submitted by Biospherics Incorporated. Based upon the information available for review, it appears as though, the laboratory analyzed the aforementioned water samples from the Argonne National Laboratory - West according to SW846 analytical protocols. The deliverable format does not comply with data package requirements pursuant with Level A validation protocol. The review could not include Level A data validation confirmation.

C. CONTRACT AND TECHNICAL REVIEW:

Site: Water from Argonne National Laboratory - West
Type: TAL Metals plus Tin less mercury and cyanide
Case No.: 93102505
SDG No.: 93102505
Laboratory: Biospherics Incorporated

Sample Identification:

<u>FIELD ID</u>	<u>LAB ID</u>
ANL-233-93 (EBR II NO2)	93102505-35
ANL-247-93 (EBR II NO1)	93102505-39

CTR COMMENTS:

1. All analyses for analytes (with the exception of potassium) as applicable to samples in this SDG were conducted via Inductively Coupled Plasma (ICP) methodology. Potassium was analyzed via Flame Atomic Absorption (AA).
2. The validator attempted to verify reported results for potassium as noted for these two samples and as required as per Level A validation protocol. The data package raw data sheets were legible and lend themselves to this purpose. The validator recalculated potassium results from the absorbance curve and noted incorrect sample quantitation practices. Specifically, the laboratory reported a positive value for potassium as noted in sample ANL-233-93 (EBR II NO2), (namely, 4.17 ug/L). The laboratory raw data indicates 4.17 mg/L. There appears to be a discrepancy regarding reporting of proper units. However, the problem is more severe. Please reference the support documentation which includes the raw data regarding the aforementioned sample. Verification of the correct practice for analyte quantification using the appropriate instrument absorbance value is indicated.

The validator calculated an actual concentration value for this analyte in this sample as 4.2 mg/L. The laboratory error cannot be attributed to rounding discrepancies. The laboratory quite simply and incorrectly failed to accurately perform a rudimentary laboratory quantification for this analyte. Secondly, the laboratory failed to convert the mg/L reading to units of ug/L. The correct result for

this analyte should appear as 4200 ug/L. Such fundamental discrepancies render the data highly suspect.

These are fundamental reporting errors which severely and adversely impact data quality. These problems appear to be consistent throughout portions of these data packages. Thus, some results which have been randomly spot-checked by the validator are incorrect and deemed unusable. It is not practically possible given time constraints and the illegible conditions of portions of the raw data to correctly requantitate reported values. This continues as the foundation behind which the validator supports his professional opinion to consider the data unusable.

3. Continuing, the validator has attempted to verify randomly selected ICP results for aluminum, calcium, iron, and magnesium. Specifically, the laboratory had reported a concentration of 64.5 ug/L for iron as noted in sample AN-247-93. Verification vs. the raw data would seem to indicate a 10X discrepancy which cannot be accounted for via dilution affects. Dilution affects applicable to these analytes for these samples have not been chronicled for these data packages. This information should be contained in the raw data or provided on the Form XIV. This critical information was not provided. Furthermore, times of analysis were not indicated on either the Form XIVs or raw data injection log sheets. These anomalies potentially introduce systematic problems regarding proper interpretation and sample validation, thus, rendering the data highly suspect should these results be subsequently used for quantitative purposes.
4. Additional problems are encountered with negatively reported values form numerous analytes as noted for these samples. The laboratory has reported values to the instrument response levels in instances where base-line drifting and poor instrument response were noted. This is incorrect reporting procedure. This deficiency is consistent for antimony, nickel, and beryllium as randomly checked and applicable to sample ANL-233-93. It is the professional opinion of the data reviewer that such data points are unusable and adversely bias the overall data set when reported as such. Such reporting is considered inappropriate. The sample data should not be used for quantitative purposes as provided in this reporting format. Please reference the attached support documentation which provides ample evidence of the aforementioned problems.
5. Samples were collected on 10/19/93 and 10/20/93. ICP analytes were analyzed within holding time requirements. Thus, no corrective actions were necessary.
6. Portions of the raw data were illegible and provided no useful information. This is anomaly is noted here for completeness.
7. The laboratory included non pertinent, nonusable information regarding Graphite Furnace Atomic Absorption (GFAA) analyses of selenium and thallium. Furnace analyses were not included for any analyte as applicable to the samples in this SDG. Additionally, mercury and cyanide data were included with this data package unnecessarily.
8. An Initial Calibration Verification (ICV) Percent Recovery (%R) for cadmium was marginally below the 90% quality control limit. A Continuing Calibration Verification (CCV) recovery for barium was extremely low.
9. The sample data were not evaluated for blank contamination. Dilution factors were not chronicled on the Form XIVs as necessary for proper evaluation of this parameter. The laboratory routinely reported negative concentrations as noted on the quality control data and Form Is.

The laboratory failed to include critical information regarding actual times of sample analysis. Analysis times were also not provided in the corresponding raw data which severely limited the use of this data as Level A information.

The laboratory incorrectly reported to the instrument response level as noted in the raw data and included in the support documentation. This is grossly incorrect and substantially biases the data set

in a statistical sense. The laboratory must report instrument response readings to the IDL and not report values which are noted in the "raw" instrument print-out. Additionally, the absence of reporting limits and the practice of reporting results below SOW reporting limits compromised the blank evaluation process. The data reviewer could not therefore evaluate blank contamination in accordance with SMO-SOP-12.1.5¹.

10. The laboratory did not adequately complete the ICP Interference Check Sample (ICS) Form IV. One of the purposes of analyzing the ICP ICS solution is to determine the potential impact of the four interfering analytes on potentially impacted analytes. This was not done. The interfering analytes aluminum, calcium, iron, and magnesium were noted reported for this solution.

The ICSAB recovery for antimony was below the 80% lower quality control limit. It is noted that interfering analytes were present in the environmental samples at sufficiently low levels as to not introduce interference affects.

11. The Matrix Spike (MS) Form VA failed to include requested analytes other than arsenic, lead, selenium, and thallium. There exists a gross omission of analytes of concern which should have been included on this form. The laboratory erroneously reported tin as noted on the Form V. Similar inconsistencies were noted regarding reporting omissions and format inconsistencies relative to the laboratory duplicate analysis as documented on the Form VI.
12. The aqueous Laboratory Control Sample (LCS) recoveries for numerous analytes were not reported in some instances. Furthermore, the aqueous LCS found values for calcium, magnesium, and sodium were not reported. Thus, this quality control parameter provides no useful information regarding data usability.

D. DATA LIMITATION OVERVIEW:

a. Summary of Qualified Data

Sample ANL-233-93 (EBR II NO2) could not be fully evaluated given the limitations of the data package deliverable. Sample data qualifications were not made for the aforementioned quality control noncompliances (anomalies) as it is not possible to ascertain a cumulative affect of the type or severity of problems impacting sample data quality based upon the unacceptable format of the data package deliverable.

Sample ANL-247-93 (EBR II NO1) could not be fully evaluated given the limitations of the data package deliverable. Sample data qualifications were not made for the aforementioned quality control noncompliances (anomalies) as it is not possible to ascertain a cumulative affect of the type or severity of problems impacting sample data quality based upon the unacceptable format of the data package deliverable.

E. LABORATORY APPRAISAL:

The data package was presented in a format which could not be fully evaluated as per the validation review requirements as defined by Level A validation review criteria. Qualifications applied to the data serve to indicate problems which could effectively be identified based upon specific noncompliant quality control parameters. Additionally, various anomalies and inconsistencies prevented a logical and systematic evaluation process of identifying and qualifying analytical results with a given amount of certainty. The following notable items illustrate the systematic problems associated with this deliverable:

- inconsistent reporting of analytical results (i.e., results reported both above and below detection limits referenced in the SOW).
- Negative results reported on the Form Is
- Absence of laboratory qualifications
- Omissions of various analytes on various quality control summary forms (i.e., percent recoveries)

Furthermore, deficiencies noted with data presentation and reporting may not preclude additional, more severe problems with the data which could in affect render the data nonusable. It is not possible to make an accurate and complete assessment of the data as described above. Furthermore, overall data usability cannot be appraised for this data set as a result of problems noted with the deliverable.

F. REFERENCES:

1. Standard Operating Procedure For Inorganic Data Validation, "SMO-SOP-12.1.5", Environmental Restoration Program, EG&G, Inc., 1991.

APPENDIX A

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

ANL-233-93

b Name: BIOSPHERICS INCORPORATED Contract: ARGONNE

Lab Code: 93102505 Case No.: 93102505 SAS No.: _____ SDG No.: _____

Matrix (soil/water): WATER Lab Sample ID: 93102505-35

Level (low/med): 11/1/93 Date Received: 11/01/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	35			P
7440-36-0	Antimony	-104.2			P
7440-38-2	Arsenic				
7440-39-3	Barium	23.8			P
7440-41-7	Beryllium	-4.9			P
7440-43-9	Cadmium	3.5			P
7440-70-2	Calcium	39714			P
7440-47-3	Chromium	1.8			P
7440-48-4	Cobalt	8.4			P
7440-50-8	Copper	20.5			P
7439-89-6	Iron	69			P
7439-92-1	Lead				
7439-95-4	Magnesium	12571			P
7439-96-5	Manganese	0.3			P
7439-97-6	Mercury				
7440-02-0	Nickel	-15.2			P
7440-09-7	Potassium	X 4.17			A
7782-49-2	Selenium				
7440-22-4	Silver	5.5			P
7440-23-5	Sodium	18455			P
7440-28-0	Thallium				
7440-62-2	Vanadium	9.9			P
7440-66-6	Zinc	6.8			P
	Cyanide				
7440-31-	Tin	-19.4			P

Color Before: _____

Clarity Before: _____ Texture: _____

Color After: _____

Clarity After: _____ Artifacts: _____

Comments:

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AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA UNITS	DATE COLLECTED	SDG NUMBER	ANL-W EBR II #1 MONITORING WELL AGW01001AV8E7 GROUND WATER ug/L	ANL-W EBR II #1 MONITORING WELL AGW02401V4 GROUND WATER ug/L	ANL-W EBR II #1 MONITORING WELL AGW02401V4 GROUND WATER ug/L
							5-0-95 AGW01001AV8E7	8-29-95 AGW02401V4	
FIELD MEASUREMENTS									
	Depth (ft)						725	725	
TARGET COMPOUNDS									
	Chloromethane						10 U	10 U	10 U
	Bromomethane						10 U	10 U	10 U
	Vinyl Chloride						10 U	10 U	10 U
	Chloroethane						10 U	10 U	10 U
	Methylene Chloride						5 U	5 U	5 U
	Acetone						10 U	10 U	10 U
	Carbon Disulfide						5 U	5 U	5 U
	1,1-Dichloroethene						5 U	5 U	5 U
	1,1-Dichloroethane						5 U	5 U	5 U
	1,2-Dichloroethene_(total)						5 U	5 U	5 U
	Chloroform						5 U	5 U	5 U
	1,2-Dichloroethane						10 U	10 U	10 U
	2-Butanone						5 U	5 U	5 U
	1,1,1-Trichloroethane						5 U	5 U	5 U
	Carbon Tetrachloride						5 U	5 U	5 U
	Vinyl Acetate						10 U	10 U	10 U
	Bromodichloromethane						5 U	5 U	5 U
	1,2-Dichloropropane						5 U	5 U	5 U
	cis-1,3-Bichloropropene						5 U	5 U	5 U
	Trichloroethene						5 U	5 U	5 U
	Dibromochloromethane						5 U	5 U	5 U
	1,1,2-Trichloroethane						5 U	5 U	5 U
	Benzene						5 U	5 U	5 U
	Trans-1,3-Dichloropropene						5 U	5 U	5 U
	Bromoform						5 U	5 U	5 U
	4-Methyl-2-Pentanone						10 U	10 U	10 U
	2-Hexanone						5 U	5 U	5 U
	Tetrachloroethene						5 U	5 U	5 U
	1,1,2,2-Tetrachloroethane						5 U	5 U	5 U
	Toluene						5 U	5 U	5 U

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 ANL-W GROUND WATER MONITORING - EBR II #1 - VOLATILE ORGANIC APPENDIX IX DATA

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LOCATION	TYPE OF LOCATION	EBR II #1 MONITORING WELL AGW02401V4	EBR II #1 MONITORING WELL AGW02401V4
SAMPLE NUMBER	MEDIA UNITS	GROUND WATER ug/L	GROUND WATER ug/L
DATE COLLECTED	SDG NUMBER	5-9-95	8-29-95
Chlorobenzene		5 U	5 U
Ethylbenzene		5 U	5 U
Styrene		5 U	5 U
Xylene (total)		5 U	5 U
Dichlorodifluoromethane		10 U	10 U
Trichlorofluoromethane		5 U	5 U
Iodomethane		10 U	10 U
Allyl chloride		20 U	20 U
Propionitrile		50 U	50 U
Acetonitrile		20 U	20 U
Acrolein		10 U	10 U
2-Chloro-1,3-butadiene		100 U	100 U
Acrylonitrile		10 U	10 U
Methacrylonitrile		20 U	20 U
Dibromomethane		10 U	10 U
Isobutyl alcohol		20 U	100 U
1,2-Dibromoethane		20 U	20 U
1,1,1,2-Tetrachloroethane		10 U	10 U
1,2,3-Trichloropropane		10 U	10 U
Trans-1,4-Dichloro-2-butene		100 U	100 U
1,2-Dibromo-3-chloropropane		20 U	20 U
Dilution Factor		1,000	1,000
Total (Allowed) Hold Time		10(14)d	8(14)d

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AREA	ANL-W	ANL-W
LOCATION	EBR 11 #2	EBR 11 #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW0021AV	AGW02501V4
MEDIA	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L
DATE COLLECTED	5-18-94	5-9-95
SDG NUMBER	AGW0021AV	AGW01001AV7
FIELD MEASUREMENTS		
Depth (ft)	725	725
TARGET COMPOUNDS		
Ethormethane	10 U	10 U
Bromomethane	10 U	10 U
Vinyl Chloride	10 U	10 U
Chloroethane	5 U	10 U
Methylene Chloride	5 U	10 U
Acetone	12 U	10 U
Carbon Disulfide	5 U	5 U
1,1-Dichloroethene	5 U	5 U
1,1-Dichloroethane	5 U	5 U
1,2-Dichloroethene_(total)	5 U	5 U
Chloroform	5 U	5 U
1,2-Dichloroethane	5 U	5 U
2-Butanone	10 R	10 U
1,1,1-Trichloroethane	5 U	5 U
Carbon Tetrachloride	5 U	5 U
Vinyl Acetate	5 U	10 U
Bromodichloromethane	5 U	5 U
1,2-Dichloropropene	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U
Trichloroethene	5 U	5 U
Dibromochloromethane	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U
Bromoform	5 U	5 U
4-Methyl-2-Pentanone	10 U	10 U
2-Hexanone	10 U	10 U
Tetrachloroethene	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U
Toluene	5 U	5 U

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LOCATION	EBR 11 #2 MONITORING WELL AGW00201AV	EBR 11 #2 MONITORING WELL AGW01101AV	EBR 11 #2 MONITORING WELL AGW01101AV
TYPE OF LOCATION	GROUND WATER UG/L	GROUND WATER UG/L	GROUND WATER UG/L
SAMPLE NUMBER	5-18-94	5-9-95	8-28-95
MEDIA UNITS	AGW00201AV	AGW01101AV	AGW01101AV
DATE COLLECTED			
SDG NUMBER			
Chlorobenzene	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U
Styrene	5 U	5 U	5 U
Xylene (total)	5 U	10 U	10 U
Dichlorodifluoromethane	5 U	10 U	10 U
Trichlorofluoromethane	5 U	5 U	5 U
Iodomethane	5 U	10 U	10 U
Allyl chloride	5 U	20 U	20 U
Propionitrile	5 U	50 U	50 U
Acetonitrile	5 U	20 U	20 U
Acrolein	5 U	10 U	10 U
2-Chloro-1,3-butadiene	5 U	100 U	100 U
Acrylonitrile	20 U	10 U	10 U
1,4-Dioxane	1000 U		
Methacrylonitrile	5 U	20 U	20 U
Methyl methacrylate	10 U		
Dibromoethane	5 U	10 U	10 U
Isobutyl alcohol	25 R	20 U	100 U
1,2-Dibromoethane	5 U	20 U	20 U
1,1,1,2-Tetrachloroethane	5 U	10 U	10 U
1,2,3-Trichloropropane	5 U		
Trans-1,4-Dichloro-2-butene	5 U	10 U	10 U
1,2-Dibromo-3-chloropropane	5 U	100 U	100 U
Ethyl Methacrylate	10 U	20 U	20 U
Dilution Factor	1,000	1,000	1,000
Total (Allowed) Hold Time	13(14)d	13(14)d	9(14)d
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AREA	ANL-W MW-11	ANL-W MW-11	ANL-W MW-11
LOCATION	MONITORING WELL AGW00301AV	MONITORING WELL AGW0120AV	MONITORING WELL AGW02301V4
SAMPLE NUMBER		GROUND WATER ug/L	GROUND WATER ug/L
MEDIA			
UNITS			
DATE COLLECTED	4-13-94	5-9-95	8-29-95
SDG NUMBER	AGW00301AV	AGW01001AVE7	AGW02301V4
FIELD MEASUREMENTS			
Depth (ft)	638	654.1	640
TARGET COMPOUNDS			
Chloromethane	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U
Chloroethane	5 U	10 U	10 U
Methylene Chloride	5 U	15 U	6 U
Acetone	10 U	10 U	10 U
Carbon Disulfide	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U
1,2-Dichloroethene_(total)	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U
2-Butanone	10 R	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U
Vinyl Acetate	5 U	10 U	10 U
Bromodichloromethane	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U
Benzene	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U
4-Methyl-2-Pentanone	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U
Toluene	5 U	5 U	5 U

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LOCATION	MONITORING WELL SAMPLE NUMBER	MONITORING WELL MEDIA	MONITORING WELL UNITS	MONITORING WELL DATE COLLECTED	MONITORING WELL SDG NUMBER	M-11 AGW00301AV	M-11 GROUND WATER ug/L	M-11 GROUND WATER ug/L	M-11 GROUND WATER ug/L	M-11 AGW01201AV	M-11 AGW01001AVE7	M-11 AGW02301V4
Chlorobenzene			5 U			5 U		5 U		5 U		
Ethylbenzene			5 U			5 U		5 U		5 U		
Styrene			5 U			5 U		5 U		5 U		
Xylene (total)			5 U			5 U		5 U		5 U		
Dichlorodifluoromethane			10 U			10 U		10 U		10 U		
Trichlorofluoromethane			20 U			20 U		20 U		20 U		
Iodomethane			50 U			50 U		50 U		50 U		
Allyl chloride			50 U			50 U		50 U		50 U		
Propionitrile			20 U			20 U		20 U		20 U		
Acetonitrile			20 U			20 U		20 U		20 U		
Acrolein			100 U			100 U		100 U		100 U		
2-Chloro-1,3-butadiene			10 U			10 U		10 U		10 U		
Acrylonitrile			10 U			10 U		10 U		10 U		
1,4-Dioxane			1000 U			1000 U		1000 U		1000 U		
Methacrylonitrile			5 U			20 U		20 U		20 U		
Methyl methacrylate			10 U			10 U		10 U		10 U		
Dibromoethane			5 U			25 R		20 U		100 U		
Isobutyl alcohol			5 U			5 U		20 U		20 U		
1,2-Dibromoethane			5 U			5 U		10 U		10 U		
1,1,1,2-Tetrachloroethane			5 U			5 U		10 U		100 U		
1,2,3-Trichloropropane			5 U			5 U		10 U		10 U		
Trans-1,4-Dichloro-2-butene			5 U			5 U		100 U		100 U		
1,2-Dibromo-3-chloropropane			10 U			10 U		20 U		20 U		
Ethyl Methacrylate			10 U			10 U		10 U		10 U		
Dilution Factor	1,000											
Total (Allowed) Hold Time	13(14)d											
	2-26-96											

1,000
8(14)d

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AREA	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12
LOCATION	MONITORING WELL AGW00401AV	MONITORING WELL AGW01301AV	MONITORING WELL AGW01701AV	MONITORING WELL AGW02001AV
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	4-12-94	3-20-95	5-16-95	7-31-95
MEDIA UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	AGW00301AV	AGW01301AV	AGW01701AV	AGW02001AV
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	650	648	715	715
TARGET COMPOUNDS				
Chloromethane	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U
Chloroethane	5 U	5 U	10 BU	5 U
Methylene Chloride				
Acetone	10 U	10 U	10 U	8 U
Carbon Disulfide	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U
1,1-Dichloroethane				
1,2-Dichloroethene (total)	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U
2-Butanone	10 R	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U
Vinyl Acetate				
Bromodichloromethane	5 U	5 U	10 U	10 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U

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ANL-W GROUND WATER MONITORING - MW-12 - VOLATILE ORGANIC APPENDIX IX DATA

LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
TYPE OF LOCATION	AGW00401AV	AGW01301AV	AGW01701AV	AGW02001AV
SAMPLE NUMBER				
MEDIA UNITS	GROUND WATER ug/L	GROUND WATER ug/L	GROUND WATER ug/L	GROUND WATER ug/L
DATE COLLECTED	4-12-94	3-20-95	5-16-95	7-31-95
SDG NUMBER	AGW00301AV	AGW01301AV	AGW01701AV	AGW02001AV
Chlorobenzene	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	10 U	10 U	10 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U
Iodomethane	5 U	10 U	10 U	10 U
Allyl chloride	5 U	20 U	20 U	20 U
Propionitrile	5 U	50 U	50 U	50 U
Acetonitrile	5 U	20 U	20 U	20 U
Acrolein	5 U	10 U	10 U	10 U
2-Chloro-1,3-butadiene	5 U	100 U	100 U	100 U
Acrylonitrile	20 U	10 U	10 U	10 U
1,4-Dioxane	1000 U			
Methacrylonitrile	5 U	20 U	20 U	20 U
Methyl methacrylate	10 U			
Dibromomethane	5 U	10 U	10 U	10 U
Isobutyl alcohol	25 R	20 R	20 U	100 U
1,2-Dibromoethane	5 U	20 U	20 U	20 U
1,1,1,2-Tetrachloroethane	5 U	10 U	10 U	10 U
1,2,3-Trichloropropene	5 U	10 U	10 U	10 U
Trans-1,4-Dichloro-2-butene	5 U	100 U	100 U	100 U
1,2-Dibromo-3-chloropropane	5 U	20 U	20 U	20 U
Ethyl Methacrylate	10 U			
Dilution Factor	1,000		1,000	1,000
Total (Allowed) Hold Time	13(14)d	6(14)d	13(14)d	14(14)d

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ANL-W GROUND WATER MONITORING - MW-13 - VOLATILE ORGANIC APPENDIX IX DATA

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AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	ANL-W MW-13 MONITORING WELL AGW0401AV GROUND WATER ug/L 3-20-95 AGW0401AV	ANL-W MW-13 MONITORING WELL AGW0801AV GROUND WATER ug/L 5-16-95 AGW0701AV	ANL-W MW-13 MONITORING WELL AGW0210AV GROUND WATER ug/L 7-31-95 AGW02001AV	ANL-W MW-13 MONITORING WELL AGW02801AV GROUND WATER ug/L 10-25-95 AGW02701AV	
								FIELD MEASUREMENTS	Depth (ft)			
								TARGET COMPOUNDSS				
				Chloromethane	10 u			10 u	10 u	10 u	10 u	
				Bromomethane	10 u			10 u	10 u	10 u	10 u	
				Vinyl Chloride	10 u			10 u	10 u	10 u	10 u	
				Chlorethane	10 u			10 u	10 u	10 u	10 u	
				Methylene Chloride	5 u			14 BU	4 u	5 u	5 u	
				Acetone	10 u			10 u	7 u	7 u	10 u	
				Carbon Disulfide	5 u			5 u	5 u	5 u	5 u	
				1,1-Dichloroethene	5 u			5 u	5 u	5 u	5 u	
				1,1-Dichloroethane	5 u			5 u	5 u	5 u	5 u	
				1,2-Dichloroethene_(total)	5 u			5 u	5 u	5 u	5 u	
				Chloroform	5 u			5 u	5 u	5 u	5 u	
				1,2-Dichloroethane	5 u			10 u	10 u	10 u	10 u	
				2-Butanone	10 u			10 u	10 u	10 u	10 u	
				1,1-Trichloroethane	5 u			5 u	5 u	5 u	5 u	
				Carbon Tetrachloride	5 u			5 u	5 u	5 u	5 u	
				Vinyl Acetate	10 u			10 u	10 u	10 u	10 u	
				Bromodichloromethane	5 u			5 u	5 u	5 u	5 u	
				1,2-Dichloropropane	5 u			5 u	5 u	5 u	5 u	
				cis-1,3-Dichloropropene	5 u			5 u	5 u	5 u	5 u	
				Trichloroethene	5 u			5 u	5 u	5 u	5 u	
				Dibromochloromethane	5 u			5 u	5 u	5 u	5 u	
				1,1,2-Trichloroethane	5 u			5 u	5 u	5 u	5 u	
				Benzene	5 u			5 u	5 u	5 u	5 u	
				Trans-1,3-Dichloropropene	5 u			5 u	5 u	5 u	5 u	
				Bromoform	5 u			5 u	5 u	5 u	5 u	
				4-Methyl-2-Pentanone	10 u			10 u	10 u	10 u	10 u	
				2-Hexanone	10 u			10 u	10 u	10 u	10 u	
				Tetrachloroethene	5 u			5 u	5 u	5 u	5 u	
				1,1,2,2-Tetrachloroethane	5 u			5 u	5 u	5 u	5 u	
				Toluene	5 u			5 u	5 u	5 u	5 u	

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ANL-W GROUND WATER MONITORING - MW-13 - VOLATILE ORGANIC APPENDIX IX DATA

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LOCATION	MONITORING WELL SAMPLE NUMBER	MONITORING WELL MEDIA UNITS	MONITORING WELL DATE COLLECTED	MONITORING WELL SDG NUMBER	M-13 AGW01401AV	M-13 AGW01801AV	M-13 AGW01701AV	M-13 AGW02101AV	M-13 AGW02801AV	M-13 AGW02701AV
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylene (total)	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane										
Trichlorofluoromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Iodomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Allyl chloride	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Propionitrile	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Acetonitrile	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acrolein	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chloro-1,3-butadiene	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Acrylonitrile	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methacrylonitrile	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dibromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isobutyl alcohol	20 R	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
1,2-Dibromoethane	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
1,1,1,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,3-Trichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trans-1,4-Dichloro-2-butene	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
1,2-Dibromo-3-chloropropane	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Dilution Factor	1,000									
Total (Allowed) Hold Time	8(14)d									

ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX FIELD BLANK DATA

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AREA	LOCATION	ANL-W QC FIELD BLANK AGW01501AV WATER
SAMPLE NUMBER	MEDIA	UNITS
UNITS	DATE COLLECTED	5-9-95
SDG NUMBER	SDG NUMBER	AGW01001AVE7
TARGET COMPOUNDS		
Chloromethane		10 U
Bromomethane		10 U
Vinyl Chloride		10 U
Chloroethane		10 U
Methylene Chloride		15 U
Acetone		10 U
Carbon Disulfide		5 U
1,1-Dichloroethene		5 U
1,1-Dichloroethane		5 U
1,2-Dichloroethene_(total)		5 U
Chloroform		5 U
1,2-Dichloroethane		5 U
2-Butanone		10 U
1,1,1-Trichloroethane		5 U
Carbon Tetrachloride		5 U
Vinyl Acetate		10 U
Bromodichloromethane		5 U
1,2-Dichloropropane		5 U
cis-1,3-Dichloropropene		5 U
Trichloroethene		5 U
Dibromochloromethane		5 U
1,1,2-Trichloroethane		5 U
Benzene		5 U
Trans-1,3-Dichloropropene		5 U
Bromoform		5 U
4-Methyl-2-Pentanone		10 U
2-Hexanone		10 U
Tetrachloroethene		5 U
1,1,2,2-Tetrachloroethane		5 U
Toluene		5 U

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ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX FIELD BLANK DATA

LOCATION	TYPE OF LOCATION	QC
SAMPLE NUMBER	FIELD BLANK	AGW01501AV
MEDIA	WATER	ug/L
UNITS		5-9-95
DATE COLLECTED		AGW01001AVE7
SDG NUMBER		
Chlorobenzene	5 U	
Ethylbenzene	5 U	
Styrene	5 U	
Xylene (total)	5 U	
Dichlorodifluoromethane	10 U	
Trichlorofluoromethane	5 U	
Iodomethane	10 U	
Allyl chloride	20 U	
Propionitrile	50 U	
Acetonitrile	20 U	
Acrolein	10 U	
2-Chloro-1,3-butadiene	100 U	
Acrylonitrile	10 U	
Methacrylonitrile	20 U	
Dibromoethane	10 U	
Isobutyl alcohol	20 U	
1,2-Dibromoethane	20 U	
1,1,1,2-Tetrachloroethane	10 U	
1,2,3-Trichloropropane	10 U	
Trans-1,4-Dichloro-2-butene	100 U	
1,2-Dibromo-3-chloropropane	20 U	
Dilution Factor	1,000	
Total (Allowed) Hold Time	10(14)d	
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ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX TRIP BLANK DATA

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AREA	ANL-W LOCATION QC TRIP BLANK ANL00594 WATER	ANL-W LOCATION QC TRIP BLANK ANL94 WATER	ANL-W LOCATION QC TRIP BLANK AGW01601AV WATER	ANL-W LOCATION QC TRIP BLANK AGW01901AV WATER	ANL-W LOCATION QC TRIP BLANK AGW01901AV WATER
TYPE OF LOCATION SAMPLE NUMBER	ANL00594	ANL94	AGW01601AV	AGW01901AV	AGW01901AV
MEDIA UNITS	ug/L	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED SDG NUMBER	4-12-94 AGW00301AV	5-18-94 AGW00201AV	3-20-95 AGW01301AV	5-9-95 AGW01001AV	5-16-95 AGW01701AV
TARGET COMPOUNDS					
Chloromethane	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 UU	10 UU	10 UU	10 UU	10 UU
Vinyl Chloride	10 CCC	10 CCC	10 CCC	10 CCC	10 CCC
Chloroethane	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U
Acetone	10 U	10 U	10 U	10 U	10 BU
Carbon Disulfide	5 UUU	5 UUU	5 UUU	5 UUU	5 UUU
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	10 R	10 U	10 U
2-Butanone	5 UU	5 UU	5 UU	5 UU	5 UU
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U
Vinyl Acetate	5 U	5 U	10 U	10 U	10 U
Bromodichloromethane	5 UUU	5 UUU	5 UUU	5 UUU	5 UUU
1,2-Dichloropropane	5 UU	5 UU	5 UU	5 UU	5 UU
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 UUU	5 UUU	5 UUU	5 UUU	5 UUU
Benzene	5 UU	5 UU	5 UU	5 UU	5 UU
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 CCC	10 CCC	10 CCC	10 CCC	10 CCC
Tetrachloroethene	5 UU	5 UU	5 UU	5 UU	5 UU
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U	5 U

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ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX TRIP BLANK DATA

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LOCATION	QC	QC	QC	QC
TYPE OF LOCATION	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
SAMPLE NUMBER	ANL00594	ANL94	AGW01601AV	AGW01901AV
MEDIA	WATER	WATER	WATER	WATER
UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	4-12-94	5-18-94	3-20-95	5-9-95
SDG NUMBER	AGW00301AV	AGW00201AV	AGW01301AV	AGW01001AVE7
Chlorobenzene	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U
Xylene (total)	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U
Iodomethane	5 U	5 U	10 U	10 U
Allyl chloride	20 U	20 U	20 U	20 U
Propionitrile	1000 U	1000 U	50 U	50 U
Acetonitrile	5 U	5 U	20 U	20 U
Acrolein	5 U	5 U	10 U	10 U
2-Chloro-1,3-butadiene	20 U	20 U	100 U	100 U
Acrylonitrile	1000 U	1000 U	10 U	10 U
1,4-Dioxane	5 U	5 U	20 U	20 U
Methacrylonitrile	5 U	5 U	20 U	20 U
Methyl methacrylate	10 U	10 U	10 U	10 U
Dibromoethane	5 U	5 U	20 R	20 U
Isobutyl alcohol	25 R	25 R	20 U	20 U
1,2-Dibromoethane	5 U	5 U	10 U	10 U
1,1,1,2-Tetrachloroethane	5 U	5 U	20 U	20 U
1,2,3-Trichloropropene	5 U	5 U	10 U	10 U
Trans-1,4-Dichloro-2-butene	5 U	5 U	100 U	100 U
1,2-Dibromo-3-chloropropane	5 U	5 U	20 U	20 U
Ethyl Methacrylate	10 U	10 U	100 U	100 U
Dilution Factor	1,000	1,000	1,000	1,000
Total (Allowed) Hold Time	13(14)d	13(14)d	10(14)d	13(14)d

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ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX TRIP BLANK DATA

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AREA	ANL-W LOCATION QC	ANL-W TRIP BLANK AGW02201AV	ANL-W QC TRIP BLANK AGW02201AV	ANL-W QC TRIP BLANK AGW02201AV
TYPE OF LOCATION	WATER	WATER	WATER	WATER
SAMPLE NUMBER	49/L	49/L	ug/L	ug/L
MEDIA UNITS	7-31-95	7-31-95	8-28-95	10-25-95
DATE COLLECTED	AGW02201AV	AGW02201AV	AGW02301AV	AGW02701AV
SDG NUMBER				
TARGET COMPOUNDS				
Chloromethane	10 UJ	10 UJ	10 UJ	10 UJ
Bromonemethane	10 UJ	10 UJ	10 UJ	10 UJ
Vinyl Chloride	10 UJ	10 UJ	10 UJ	10 UJ
Chloroethane	10 UJ	10 UJ	10 UJ	10 UJ
Methylene Chloride	5 U	5 U	5 U	5 U
Acetone	10 UJ	7 UJ	5 UJ	10 UJ
Carbon Disulfide	5 UJ	5 UJ	5 UJ	5 UJ
1,1-Dichloroethene	5 UJ	5 UJ	5 UJ	5 UJ
1,1-Dichloroethane	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dichloroethene_(total)	5 UJ	5 UJ	5 UJ	5 UJ
Chloroform	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dichloroethane	10 UJ	10 UJ	10 UJ	10 UJ
2-Butanone	5 UJ	5 UJ	5 UJ	5 UJ
1,1-Trichloroethane	5 UJ	5 UJ	5 UJ	5 UJ
Carbon Tetrachloride	5 UJ	5 UJ	5 UJ	5 UJ
Vinyl Acetate	10 UJ	10 UJ	10 UJ	10 UJ
Bromodichloromethane	5 UJ	5 UJ	5 UJ	5 UJ
1,2-Dichloropropane	5 UJ	5 UJ	5 UJ	5 UJ
cis-1,3-Dichloropropene	5 UJ	5 UJ	5 UJ	5 UJ
Trichloroethene	5 UJ	5 UJ	5 UJ	5 UJ
Dibromochloromethane	5 UJ	5 UJ	5 UJ	5 UJ
1,1,2-Trichloroethane	5 UJ	5 UJ	5 UJ	5 UJ
Benzene	5 UJ	5 UJ	5 UJ	5 UJ
Trans-1,3-Dichloropropene	5 UJ	5 UJ	5 UJ	5 UJ
Bromoform	5 UJ	5 UJ	5 UJ	5 UJ
4-Methyl-2-Pentanone	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene	5 UJ	5 UJ	5 UJ	5 UJ
1,1,2,2-Tetrachloroethane	5 UJ	5 UJ	5 UJ	5 UJ
Toluene	5 UJ	5 UJ	5 UJ	5 UJ

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ANL-W GROUND WATER MONITORING - VOLATILE ORGANIC APPENDIX IX TRIP BLANK DATA

LOCATION	TYPE OF LOCATION	QC TRIP BLANK AGW02201AV	QC TRIP BLANK AGW02201AVRE WATER	QC TRIP BLANK AGW02601V4 WATER	QC TRIP BLANK AGW02901AV WATER
SAMPLE NUMBER	MEDIA UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	SDG NUMBER	7-31-95	7-31-95	8-28-95	10-25-95
Chlorobenzene	5 UU	5 UU	5 UU	5 UU	5 UU
Ethylbenzene	5 UU	5 UU	5 UU	5 UU	5 UU
Xylene (total)	5 UU	5 UU	5 UU	5 UU	5 UU
Dichlorodifluoromethane	10 UU	10 UU	10 UU	10 UU	10 UU
Trichlorofluoromethane	5 UU	5 UU	5 UU	5 UU	5 UU
Iodomethane	10 UU	10 UU	10 UU	10 UU	10 UU
Allyl chloride	20 UU	20 UU	20 UU	20 UU	20 UU
Propionitrile	50 UU	50 UU	50 UU	50 UU	50 UU
Acetonitrile	20 UU	20 UU	20 UU	20 UU	20 UU
Acrolein	10 UU	10 UU	10 UU	10 UU	10 R
2-Chloro-1,3-butadiene	100 UU	100 UU	100 UU	100 UU	100 U
Acrylonitrile	20 UU	20 UU	20 UU	20 UU	20 U
Methacrylonitrile	20 UU	20 UU	20 UU	20 UU	20 U
Dibromomethane	10 UU	10 UU	10 UU	10 UU	10 U
Isobutyl alcohol	100 UU	100 UU	100 UU	100 UU	100 U
1,2-Dibromoethane	20 UU	20 UU	20 UU	20 UU	20 U
1,1,1,2-Tetrachloroethane	10 UU	10 UU	10 UU	10 UU	10 U
1,2,3-Trichloropropane	10 UU	10 UU	10 UU	10 UU	10 U
Trans-1,4-Dichloro-2-butene	100 UU	100 UU	100 UU	100 UU	100 U
1,2-Dibromo-3-chloropropane	20 UU	20 UU	20 UU	20 UU	20 U
Dilution Factor	1,000		1,000	1,000	1,000
Total (Allowed)	13(14)d		14(14)d	13(14)d	13(14)d
Hold Time					

AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	FIELD MEASUREMENTS	Depth (ft)
ANL-W	EBR 11 #1	MONITORING WELL	AGW01001HN	GROUND WATER	ug/L	5-10-95	AGW01001HN		
									725
		TARGET COMPOUNDS							
		Phenol	9 U						
		bis(2-Chloroethyl)ether	9 U						
		2-Chlorophenol	9 U						
		1,3-Dichlorobenzene	9 U						
		1,4-Dichlorobenzene	9 U						
		Benzyl alcohol	9 U						
		1,2-Dichlorobenzene	9 U						
		2-Methylphenol	9 U						
		bis(2-Chloroisopropyl)ether	9 U						
		3- and/or 4-Methylphenol	9 U						
		N-Nitroso-di-n-propylamine	9 U						
		Hexachloroethane	9 U						
		Nitrobenzene	9 U						
		Isophorone	9 U						
		2-Nitrophenol	9 U						
		2,4-Dimethylphenol	9 U						
		Benzoic acid	47						
		bis(2-Chloroethoxy)methane	9 U						
		2,4-Dichloropheno	9 U						
		1,2,4-Trichlorobenzene	9 U						
		Naphthalene	9 U						
		4-Chloroaniline	9 U						
		Hexachlorobutadiene	9 U						
		4-Chloro-3-methylphenol	9 U						
		2-Methylnaphthalene	47						
		Dimethylphthalate	9 U						
		Acenaphthylene	9 U						
		2,4,5-Trichloropheno	47						
		2,6-Dinitrotoluene	9 U						
		3-Nitroaniline	47						
		Acenaphthene	9 U						
		2,4-Dinitrophenol	47						
		2-Nitrophenol	49						
		Dibenzofuran	9 U						
		2,4-Dinitrotoluene	9 U						
		Diethylphthalate	9 U						

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 ANL-W GROUND WATER MONITORING - EBR II #1 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

AREA	LOCATION	TYPE OF LOCATION	MONITORING WELL	UNITS	DATE COLLECTED	SDG NUMBER
ANL-W	EBR II	#1	AGW01001HN	ug/L	5-10-95	AGW01001HN
			GROUND WATER			
4-Chlorophenyl-phenyl ether	Fluorene			9 U		
4-Nitroaniline	4-Nitroaniline			9 U		
4,6-Dinitro-2-methylphenol	4,6-Dinitro-2-methylphenol			47 U		
N-Nitrosodiphenylamine (1)	N-Nitrosodiphenylamine (1)			9 U		
4-Bromophenyl-phenyl ether	Hexachlorobenzene			9 U		
Pentachlorophenol	Pentachlorophenol			9 U		
Phenanthrene	Phenanthrene			47 U		
Anthracene	Anthracene			9 U		
Di-n-butylphthalate	Di-n-butylphthalate			9 U		
Fluoranthene	Fluoranthene			9 U		
Pyrene	Pyrene			9 U		
Butylbenzylphthalate	Butylbenzylphthalate			9 U		
3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine			19 U		
Benz(a)anthracene	Benz(a)anthracene			9 U		
Chrysene	Chrysene			9 U		
bis(2-Ethyhexyl)phthalate	bis(2-Ethyhexyl)phthalate			73 U		
Di-n-octylphthalate	Di-n-octylphthalate			9 U		
Benzo(b)fluoranthene	Benzo(b)fluoranthene			9 U		
Benzot(k)fluoranthene	Benzot(k)fluoranthene			9 U		
Benz(a)pyrene	Benz(a)pyrene			9 U		
Indeno(1,2,3-cd)pyrene	Indeno(1,2,3-cd)pyrene			9 U		
Dibenz(a,h)anthracene	Dibenz(a,h)anthracene			9 U		
Benzog(h,i)perylene	Benzog(h,i)perylene			9 U		
Pyridine	Pyridine			9 U		
N-Nitrosodimethylamine	N-Nitrosodimethylamine			9 U		
Ethyl methacrylate	Ethyl methacrylate			9 U		
Methyl methacrylate	Methyl methacrylate			9 U		
2-Picoline	2-Picoline			9 U		
N-Nitrosomethylamine	N-Nitrosomethylamine			9 U		
Methyl methanesulfonate	Methyl methanesulfonate			9 U		
N-Nitrosodiethylamine	N-Nitrosodiethylamine			9 U		
Ethyl methanesulfonate	Ethyl methanesulfonate			9 U		
Pentachloroethane	Pentachloroethane			9 U		
Aniline	Aniline			9 U		
N-Nitrosopyrrolidine	N-Nitrosopyrrolidine			9 U		
Acetophenone	Acetophenone			9 U		
N-Nitrosomorpholine	N-Nitrosomorpholine			9 U		
O-Toluidine	O-Toluidine			9 U		

ANL-W GROUND WATER MONITORING - EBR II #1 - SEMI-VOLATILE ORGANIC APPENDIX IX DATA

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AREA	ANL-W
LOCATION	EBR II #1
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	AGW01001IN
MEDIA	GROUND WATER
UNITS	ug/l
DATE COLLECTED	5-10-95
SDG NUMBER	AGW01001IN
1,4-Dioxane	9 U
N-Nitrosopiperidine	47 U
Diallate	9 U
o,a-Dimethylphenethylamine	9 U
2,6-Dichlorophenol	9 U
Hexachloropropene	9 U
p-Phenylenediamine	9 U
N-Nitroso-di-n-butylamine	9 U
Safrole	9 U
1,2,4,5-Tetrachlorobenzene	9 U
Isoaffrole	9 U
1,4-Naphthoquinone	9 U
1,3-Dinitrobenzene	9 U
Pentachlorobenzene	9 U
1-Naphthyl amine	9 U
2-Naphthylamine	9 U
2,3,4,6-tetrachlorophenol	9 U
5-Nitro-o-toluidine	9 U
Diphenyl amine	9 U
1,3,5-Trinitrobenzene	9 U
Phenacetin	9 U
Chlorobenzilate	9 U
4-Aminobiphenyl	47 R
Pentachloronitrobenzene	49 U
Pronamide	49 U
2-sec-Butyl-4,6-dinitrophenol	47 U
4-Nitroquinoline-1-oxide	19 R
Methapyrilene	19 U
Aramite	19 U
p-(Dimethylamino)azobenzene	9 U
3,3'-Dimethylbenzidine	9 U
2-Acetylaminofluorene	9 U
7,12-Dimethyl(benz(a)anthracene	9 U
3-Methylcholanthrene	9 U
Hexachloropphene	85 R
Dilution Factor	1.000
Field/Shipping Time	2d
Extraction (Allowed)	Hold Time
Analytical (Allowed)	Hold Time

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ANL-W GROUND WATER MONITORING - EBR 11 #2 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

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AREA	ANL-W	ANL-W
LOCATION	EBR 11 #2	EBR 11 #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW0201HN	AGW0101HN
MEDIA	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L
DATE COLLECTED	5-18-94	5-9-95
SDG NUMBER	AGW0201HN	AGW01001HN
FIELD MEASUREMENTS		
Depth (ft)	725	725
TARGET COMPOUNDS		
Phenol	10 U	9 U
bis(2-Chloroethyl)ether	10 UUU	9 UUU
2-Chlorophenol	10 UUU	9 UUU
1,3-Dichlorobenzene	10 U	9 U
1,4-Dichlorobenzene	10 U	9 U
Benzyl alcohol	10 U	9 U
1,2-Dichlorobenzene	10 U	9 U
2-Methylphenol	10 UUU	9 UUU
bis(2-Chloroisopropyl)ether	10 UUU	9 UUU
3-and/or 4-Methylphenol	10 U	9 U
N-Nitroso-di-n-propylamine	10 U	9 U
Hexachlorobutane	10 UUU	9 UUU
Nitrobenzene	10 U	9 U
Isophorone	10 U	9 U
2-Nitrophenol	10 U	9 U
2,4-Dimethylphenol	10 UUU	9 UUU
Benzoic acid	50	47
bis(2-Chloroethoxy)methane	10 UUU	9 UUU
2,4-Dichlorophenoxy	10 UUU	9 UUU
1,2,4-Trichlorobenzene	10 U	9 U
Naphthalene	10 U	9 U
4-Chloraniline	10 UUU	9 UUU
Hexachlorobutadiene	10 UUU	9 UUU
4-Chloro-3-methylphenol	10 UUU	9 UUU
2-Methyl(naphthalene	10	9
Hexachlorocyclohexadiene	10	9
2,4,6-Trichlorophenol	50	47
2,4,5-Trichlorophenol	50	47
2-Chloronaphthalene	10	9
2-Nitroaniline	50	47
Dimethylphthalate	10	9
Acenaphthylene	10	9
2,6-Dinitrotoluene	10	9
3-Nitroaniline	10	9
Acenaphthene	10	9
2,4-Dinitrophenol	50	47
4-Nitrophenol	50	47
Dibenzofuran	10	9
2,4-Dinitrotoluene	10	9
Diethylphthalate	10	9

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ANL-W GROUND WATER MONITORING - EBR II #2 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

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AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	ANL-W	EBR II #2	MONITORING WELL	AGW00201HN	GROUND WATER	ug/L	ANL-W	EBR II #2	MONITORING WELL	AGW0101HN	GROUND WATER	ug/L	
	4-Chlorophenyl-phenylether				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Fluorene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	4-Nitroaniline				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	4,6-Dinitro-2-methylphenol				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	N-Nitrosodiphenylamine (1)				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	4-Bromophenyl-phenylether				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Hexachlorobenzene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Pentachlorophenol				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Phenanthrene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Anthracene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Di-n-butylphthalate				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Fluoranthene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Pyrene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Butylbenzylphthalate				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	3,3'-Dichlorobenzidine				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Benz(a)anthracene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Chrysene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	bis(2-Ethylhexyl)phthalate				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Di-n-octylphthalate				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Benzot(b)fluoranthene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Benzo(k)fluoranthene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Benz(a)pyrene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Indeno[1,2,3-cd]pyrene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Dibenz(a,h)anthracene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Benz[9,10]perylene				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Pyridine				10 U				10 U	50 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	N-Nitrosodimethylamine				50 U				50 U	50 U	50 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Methyl methacrylate				20 U				20 U	20 U	20 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Methyl methacrylate				10 U				10 U	10 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Pentachloroethane				50 U				50 U	50 U	50 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Aniline				20 U				20 U	20 U	20 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	N-Nitrosopyrrolidine				40 U				40 U	40 U	40 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	Acetophenone				10 U				10 U	10 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	N-Nitrosomorpholine				10 U				10 U	10 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	O-Toluidine				10 U				10 U	10 U	10 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47
	2,6-Naphthalenediol				20 U				20 U	20 U	20 U	5 U	9		9 U	47 U	47 U	47 U	47 U	47

AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MONITORING WELL	MONITORING WELL	MONITORING WELL
				AGW00201HN	AGW0101HN	AGW0101HN
MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	GROUND WATER	GROUND WATER	GROUND WATER
ANL-W	EBR 11 #2	Diallate	5-9-94	20 ug/L	47 ug/L	5-9-95
ANL-W	EBR 11 #2	a,a'-Dimethylphenethylamine	AGW00201HN	40 ug/L	9 ug/L	AGW0101HN
ANL-W	EBR 11 #2	2,6-Dichlorophenol		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Hexachloropropene		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	p-Phenylenediamine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	N-Nitroso-di-n-butylamine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Safrole		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	1,2,4,5-Tetrachlorobenzene		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Isosafrole		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	1,4-Naphthoquinone		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	1,3-Dinitrobenzene		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Pentachlorobenzene		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	1-Naphthylamine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	2-Naphthylamine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	2,3,5,6-Tetrachlorophenol		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	5-Nitro-o-toluidine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Diphenylamine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	1,3,5-Trinitrobenzene		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Phenacetin		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Chlorobenzilate		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	4-Aminobiphenyl		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Pentachloronitrobenzene		10 ug/L	47 ug/L	
ANL-W	EBR 11 #2	Tramate		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	(Dimethylaminobenzene)		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	2-sec-Butyl-4,6-dinitrophenol		20 ug/L	47 ug/L	
ANL-W	EBR 11 #2	Nitroquinoline-1-oxide		40 ug/L	19 ug/L	
ANL-W	EBR 11 #2	Deethylbenzene		100 ug/L	19 ug/L	
ANL-W	EBR 11 #2	Tramite		120 ug/L	19 ug/L	
ANL-W	EBR 11 #2	(Dimethylaminobenzene)		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	3,3'-Dimethylbenzidine		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Amphur		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	-Acetylaminofluorene		20 ug/L	9 ug/L	
ANL-W	EBR 11 #2	12-Dimethylbenz(a)anthracene		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	'-Methylchloranthrene		10 ug/L	9 ug/L	
ANL-W	EBR 11 #2	Tetrachlorophenol		10 ug/L	85 ug/L	
ANL-W	EBR 11 #2	-Methylphenol		10 ug/L	R	
ANL-W	EBR 11 #2	o,o'-Triethylphosphorothioate		10 ug/L		
ANL-W	EBR 11 #2	Hionazin		10 ug/L		
		dilution Factor				1.000
		ield/Shipping Time				2d
		xtraction (Allowed)				3d
		Hold Time				6(7)d
		analytical (Allowed)				18(40)d

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ANL-W GROUND WATER MONITORING - MW-11 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

AREA	LOCATION	TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	MEDIA	AGM00301HN	GROUND WATER	GROUND WATER
UNITS	DATE COLLECTED	4-13-94	ug/L	ug/L
SDG NUMBER		AGM00301HN		AGM01001HN
4-Chlorophenyl-phenyl ether	10 U	9	9	9
Fluorene	10 U	9	9	9
4-Nitroaniline	50 U	47	47	47
4,6-Dinitro-2-methylphenol	50 U	47	47	47
N-Nitrosodiphenylamine (1)	10 U	9	9	9
4-Bromophenyl-phenyl ether	10 U	9	9	9
Hexachlorobenzene	10 U	9	9	9
Pentachlorophenol	50 U	47	47	47
Phenanthrene	10 U	9	9	9
Anthracene	10 U	9	9	9
Di-n-butylphthalate	10 U	9	9	9
Fluoranthene	10 U	9	9	9
Pyrene	10 U	9	9	9
Burylbenzylphthalate	10 U	9	9	9
3,3'-Dichlorobenzidine	10 U	19	19	19
Benzo(a)anthracene	10 U	9	9	9
Chrysene	10 U	9	9	9
bis(2-Ethyhexyl)phthalate	140 BU	71	71	71
Di-n-octylphthalate	10 U	9	9	9
Benzo(b)fluoranthene	10 U	9	9	9
Benzo(k)fluoranthene	10 U	9	9	9
Benzo(a)pyrene	10 U	9	9	9
Indeno[1,2,3-cd]pyrene	10 U	9	9	9
Di-benz(a,h)anthracene	10 U	9	9	9
Benzo(g,h,i)perylene	10 U	9	9	9
Pyridine	10 U	9	9	9
N-Nitrosodimethylamine	50 U	9	9	9
Ethyl methacrylate	10 U	9	9	9
Methyl methacrylate	50 U	9	9	9
2-Picoline	50 U	9	9	9
N-Nitrosomethyl ethylamine	50 U	9	9	9
Methyl methanesulfonate	10 U	9	9	9
N-Nitrosodiethylamine	20 U	9	9	9
Ethyl methanesulfonate	20 U	9	9	9
Pentachloroethane	10 U	9	9	9
Aniline	20 U	9	9	9
N-Nitrosopyrrolidine	40 U	9	9	9
Acetophenone	10 U	9	9	9
N-Nitrosomorpholine	10 U	9	9	9
O-Tolidine	10 U	9	9	9

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ANL-W GROUND WATER MONITORING - MW-11 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

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AREA	LOCATION	TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
	SAMPLE NUMBER	AGW0301HN	AGW01201HN	GROUND WATER
MEDIA	UNITS	4 ug/L	5 ug/L	GROUND WATER
DATE COLLECTED	SDG NUMBER	AGW0301HN	AGW01001HN	
1,4-Dioxane		20 U	9 U	
N-Nitrosopiperidine			47 U	
Dialkylate		40 U	9 U	
a,a-Dimethylphenethylamine		10 U	9 U	
2,6-Dichlorophenol			9 U	
Hexachloropropene		10 U	9 U	
P-Phenylenediamine		10 U	9 U	
N-Nitroso-di-n-butylamine		10 R	9 U	
Safrole		10 U	9 U	
1,2,4,5-Tetrachlorobenzene		10 U	9 U	
Iosafrole		10 U	9 U	
1,4-Naphthoquinone		20 U	9 U	
1,3-Dinitrobenzene		10 U	9 U	
Pentachlorobenzene		10 U	9 U	
1-Naphthylamine		10 U	9 U	
2-Naphthylamine		10 U	9 U	
2,3,5,6-tetrachlorophenol		10 U	9 U	
5-Nitro-o-toluidine		10 U	9 U	
Diphenylamine		10 U	9 U	
1,3,5-Trinitrobenzene		20 U	9 U	
Phenacetin		20 U	9 U	
Chlorobenzilate			9 U	
4-Nitrobiphenyl		20 U	9 U	
Methapyrilene		100 U	19 R	
Aramite		10 U	19 U	
p-(Dimethylamino)azobenzene		10 U	19 U	
2-sec-Butyl-4,6-dinitrophenol		20 U	9 U	
4-Nitroquinoline-1-oxide		40 U	19 R	
Famphur		20 U	9 U	
2-Acetylaminofluorene		20 U	9 U	
7,12-Dimethylbenz(a)anthracene		10 U	9 U	
3-Methylcholanthrene		10 U	9 U	
Hexachlorophene			10 U	
3-Methylphenol		10 U	10 U	
0,0'-Triethylphosphorothioate		10 U	10 U	
Thionazin		85 R	85 R	
Dilution Factor		1.000	1.000	
Field Shipping Time	1d	6(7)d	6(7)d	
Extraction (Allowed)	Hold Time	8(40)d	18(40)d	
Analytical (Allowed)	Hold Time			
				2-26-95

AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA UNITS	DATE COLLECTED	SDG NUMBER	ANL-W M-12 MONITORING WELL AGW00401HN GROUND WATER ug/L 4-12-94 AGW00301HN	ANL-W M-12 MONITORING WELL AGW01301HN GROUND WATER ug/L 3-20-95 AGW01301HN	ANL-W M-12 MONITORING WELL AGW01701HN GROUND WATER ug/L 5-16-95 AGW01701HN	ANL-W M-12 MONITORING WELL AGW02001HN GROUND WATER ug/L 7-31-95 AGW02001HN
	4-Chlorophenyl phenylether			10 u	10 u	9 u	10 u	10 u	10 u	10 u
	Fluorene			10 u	10 u	9 u	10 u	10 u	10 u	10 u
	4-Nitroaniline			50 u	47 u	50 u	50 u	50 u	48 u	48 u
	4,6-Dinitro-2-methylphenol			50 u	47 u	50 u	50 u	50 u	48 u	48 u
	N-Nitrosodiphenylamine (1)			10 u	9 u	9 u	10 u	10 u	10 u	10 u
	4-Bromophenyl phenylether			10 u	9 u	9 u	10 u	10 u	10 u	10 u
	Hexachlorobenzene			10 u	9 u	9 u	10 u	10 u	10 u	10 u
	Pentachlorophenol			50 u	47 u	50 u	50 u	50 u	48 u	48 u
	Phenanthrene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Anthracene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Di-n-butyl phthalate			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Fluoranthene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Pyrene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Butylbenzylphthalate			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	3,3'-Dichlorobenzidine			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Benz(a)anthracene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Chrysene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	bis(2-Ethyhexyl)phthalate			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Di-n-octylphthalate			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Benzo(b)fluoranthene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Benzo(k)fluoranthene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Benzo(a)pyrene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Indeno(1,2,3-cd)pyrene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Dibenz(a,h)anthracene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Benzo(g,h,i)perylene			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Pyridine			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	N-Nitrosodimethylamine			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Ethyl methacrylate			50 u	49 u	50 u	49 u	50 u	49 u	50 u
	Methyl methacrylate			20 u	19 u	20 u	19 u	20 u	19 u	20 u
	2-Picoline			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Aniline			50 u	49 u	50 u	49 u	50 u	49 u	50 u
	N-Nitrosopyrrolidine			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	Acetophenone			20 u	19 u	20 u	19 u	20 u	19 u	20 u
	N-Nitrosomorpholine			10 u	9 u	10 u	10 u	10 u	10 u	10 u
	O-Toluidine			10 u	9 u	10 u	10 u	10 u	10 u	10 u

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ANL-W GROUND WATER MONITORING - MW-12 - SEMIVOLATILE ORGANIC APPENDIX IX DATA

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AREA	ANL-W M-12	ANL-W M-12	ANL-W M-12	ANL-W M-12
LOCATION	MONITORING WELL AGW00401HN	MONITORING WELL AGW01301HN	MONITORING WELL AGW01701HN	MONITORING WELL AGW02001HN
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	4-12-94	3-20-95	5-16-95	7-31-95
MEDIA UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	AGW00301HN	AGW01301HN	AGW01701HN	AGW02001HN
SDG NUMBER				
1,4-Dioxane	20 U	9 U	10 U	10 U
N-Nitrosopiperidine				
Diallate	40 U	9 U	50 U	48 U
3,8-Dimethylphenethylamine	10 U	9 U	10 U	10 U
2,6-Dichlorophenol				
Hexachloropropene	10 U	9 U	10 U	10 U
P-Phenylenediamine	10 U	9 U	10 R	10 U
N-Nitroso-di-n-butylamine	10 U	9 U	10 U	10 U
Safrole	10 R	9 U	10 U	10 U
1,2,4,5-Tetrachlorobenzene	10 U	9 U	10 U	10 U
Iosafrole				
1,4-Naphthoquinone	10 U	9 U	10 U	10 U
1,3-Dinitrobenzene	20 U	9 U	10 U	10 U
Pentachlorobenzene	10	9 U	10 U	10 U
1-Naphthylamine				
2-Naphthylamine	10 U	9 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	10 U	9 U	10 U	10 U
5-Nitro-o-toluidine	10 U	9 U	10 U	10 U
Diphenylamine	10	9 U	10 U	10 U
1,3,5-Trinitrobenzene	20	9 U	10 U	10 U
Phenacetin				
Chlorobenzilate	20 U	9 U	10 U	10 U
4-Aminobiphenyl	20 U	9 U	10 U	10 U
Pentachloronitrobenzene	20	9 U	10 U	10 U
Pronamide	10	9 U	10 U	10 U
2-sec-Butyl-4,6-dinitrophenol				
4-Nitroquinoline-1-oxide	20 U	47 U	50 U	50 U
Methaphyline	40 U	19 U	20 R	48 U
Aramite	100 U	19 U	10 U	19 R
P-(Dimethylamino)azobenzene	20	19 U	20 U	10 U
Famphur	10 U	9 U	10 U	10 U
2-Acetylaminofluorene	20	9 U	10 U	10 U
7,12-Dimethylbenz(a)anthracene	10 U	9 U	10 U	10 U
3-Methylcholanthrene	10	9 U	10 U	10 U
Hexachlorophene				
3-Methylphenol	10 U	85 R	90 R	90 U
9,9-o-Triethylphosphorothioate	10 U			
Thionazin	10 U			
Dilution Factor	1.000		1.000	1.000
Field/Shipping Time	2d	2d	2d	2d
Extraction (Allowed)	Hold Time	7(7)d	3(7)d	5(7)d
Analytical (Allowed)	Hold Time	8(40)d	26(40)d	17(40)d

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ANL-W GROUND WATER MONITORING - MW-13 - SEMI-VOLATILE ORGANIC APPENDIX IX DATA

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AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW01401HN GROUND WATER	MONITORING WELL AGW01801HN GROUND WATER	MONITORING WELL AGW0201HN GROUND WATER
TYPE OF LOCATION	MONITORING WELL AGW01401HN GROUND WATER	MONITORING WELL AGW01801HN GROUND WATER	MONITORING WELL AGW0201HN GROUND WATER
SAMPLE NUMBER	3-20-95 AGW01301HN	5-16-95 AGW01701HN	7-31-95 AGW02001HN
SDG NUMBER			
FIELD MEASUREMENTS	636	636	642
DEPTH (FT)			
TARGET COMPOUNDS			
Pheno	9 U	10 U	10 U
bis(2-chloroethyl)ether	9 U	10 U	10 U
2-Chlorophenol	9 U	10 U	10 U
1,3-Dichlorobenzene	9 U	10 U	10 U
1,4-Dichlorobenzene			
Benzyl alcohol	9 U	10 U	10 U
1,2-Dichlorobenzene	9 U	10 U	10 U
2-Methylphenol	9 U	10 U	10 U
bis(2-chloroisopropyl)ether	9 U	10 U	10 U
3- and/or 4-Methylphenol	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	9 U	10 U	10 U
Hexachloroethane	9 U	10 U	10 U
Nitrobenzene	9 U	10 U	10 U
Isophorone	9 U	10 U	10 U
2-Nitrophenol	9 U	10 U	10 U
2',4-Dimethylphenol	9 U	10 U	10 U
Benzoic acid	47	50	48
bis(2-Chlorooethoxy)methane	9 U	10 U	10 U
2',4-Dichloropheno	9 U	10 U	10 U
1,2,4-Trichlorobenzene	9 U	10 U	10 U
Naphthalene	9 U	10 U	10 U
4-Chloroaniline	9 U	10 U	10 U
Hexachlorobutadiene	9 U	10 U	10 U
4-Chloro-3-methylphenol	9 U	10 U	10 U
2-Methylnaphthalene	9 U	10 U	10 U
Hexachlorocyclopentadiene	9 U	10 U	10 U
2',4,6-Trichloropheno	47	50	48
2',4,5-Trichloropheno	47	50	48
2-Chloronaphthalene	47	50	48
2-Nitroaniline	9 U	10 U	10 U
Dimethylphthalate	9 U	10 U	10 U
Acenaphthylene	9 U	10 U	10 U
2,6-Dinitrotoluene	47	50	48
3-Nitroaniline	9 U	10 U	10 U
Acenaphthene	9 U	10 U	10 U
2,4-Dinitrophenol	47	50	48
4-Nitrophenol	47	50	48
Dibenzofuran	9 U	10 U	10 U
2,4-Dinitrotoluene	10	10 U	10 U
Diethylphthalate	10	10 U	10 U

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AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	ANL-W MW-13	MONITORING WELL AGW0101HN	GROUND WATER ug/L	ANL-W MW-13	MONITORING WELL AGW02101HN	GROUND WATER ug/L	ANL-W MW-13	MONITORING WELL AGW02001HN	GROUND WATER ug/L
4-Chlorophenyl-phenyl ether	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Fluorene	9 U							47 U		50 U	50 CCCC		48 U	48 CCCC		48 U
4-Nitroaniline	47 U							47 U		50 U	50 CCCC		48 U	48 CCCC		48 U
4,6-Dinitro-2-methylphenol	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
N-Nitrosodiphenylamine (1)	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
4-Bromophenyl-phenyl ether	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Hexachlorobenzene	9 U							47 U		50 U	50 CCCC		48 U	48 CCCC		48 U
Pentachlorophenol	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Phenanthrene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Anthracene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Di-n-butylphthalate	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Fluoranthene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Pyrene	9 U							19 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Butylbenzylphthalate	19 U							19 U		20 U	20 CCCC		20 U	20 CCCC		20 U
3,3'-Dichlorobenzidine	19 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Benz(a)anthracene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Chrysene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
bis(2-Ethylhexyl)phthalate	9 U							9 U		270 U	270 CCCC		29 U	29 BCCCC		29 U
Di-n-octylphthalate	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Benz(b)fluoranthene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Benzo(k)fluoranthene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Benzo(a)pyrene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Indeno(1,2,3-cd)pyrene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Dibenz(a,h)anthracene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Benz(g,h)perylene	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Pyridine	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
N-Nitrosodimethylamine	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Ethyl methacrylate	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Methyl methacrylate	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
2-Picoline	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Aniline	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
N-Nitrosopyrrolidine	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
Acetophenone	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
N-Nitrosomorpholine	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U
O-Toluidine	9 U							9 U		10 U	10 CCCC		10 U	10 CCCC		10 U

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AREA	LOCATION TYPE OF LOCATION SAMPLE NUMBER	MONITORING WELL MEDIA UNITS	MONITORING WELL GROUND WATER uG/L	MONITORING WELL GROUND WATER uG/L	MONITORING WELL GROUND WATER uG/L
DATE COLLECTED	SDG NUMBER	AGW01301HN	3-20-95	5-16-95	7-31-95
1,4-Dioxane	9 U	10 U	50 U	50 U	48 U
N-Nitrosopiperidine	47 U	50 U	10 U	10 U	10 U
Diallate	9 UU	10 UU	10 UU	10 UU	10 UU
8,9-Dimethylphenethylamine	9 U	10 U	10 R	10 U	10 U
N-Nitroso-di n-butylamine	9 UU	10 UU	10 UU	10 UU	10 UU
Safrole	9 U	10 U	10 U	10 U	10 U
1,2,4,5-Tetrachlorobenzene	9 U	10 U	10 U	10 U	10 U
Iosafrole	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
1,4-Naphthoquinone	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
1,3-Dinitrobenzene	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
Pentachlorobenzene	9 U	10 U	10 U	10 U	10 U
1-Naphthylamine	9 U	10 U	10 U	10 U	10 U
2-Naphthylamine	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
2,3,4,6-Tetrachlorophenol	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
5-Nitro-o-toluidine	9 UUU	10 UUU	10 UUU	10 UUU	10 UUU
Diphenylamine	9 U	10 U	10 U	10 U	10 U
1,3,5-Trinitrobenzene	9 U	10 U	50 U	50 U	48 R
Phenacetin	9 U	10 U	10 U	10 U	10 U
Chlorobenzilate	9 U	10 U	10 U	10 U	10 U
4-Aminobiphenyl	9 U	10 U	10 U	10 U	10 U
Pentachloronitrobenzene	47 U	50 U	50 U	50 U	48 U
Propanide	9 U	10 U	10 U	10 U	10 U
2-sec-Butyl-4,6-dinitrophenol	47 U	50 U	20 R	20 R	19 R
4-Nitroquinoline-1-oxide	19 R	10 U	10 U	10 U	10 U
Methapyrilene	19 U	20 U	20 U	20 U	19 U
Aramite	19 U	10 U	10 U	10 U	10 U
p-(Dimethylamino)azobenzene	9 U	10 U	10 U	10 U	10 U
3,3'-Dimethylbenzidine	9 U	10 U	10 U	10 U	10 U
2-Acetylaminofluorene	9 U	10 U	10 U	10 U	10 U
7,12-Dimethylbenz(a)anthracene	9 U	10 U	10 U	10 U	10 U
3-Methylcholanthrene	9 U	10 U	90 R	90 U	86 R
Hexachlorophene	85 R	90 R	90 R	90 U	86 R
Dilution Factor	1.000	1.000	1.000	1.000	1.000
Field/Shipping Time	2d	2d	3(7)d	3(7)d	2d
Extraction (Allowed)	Hold Time	Hold Time	18(40)d	18(40)d	5(7)d
Analytical (Allowed)	Hold Time	Hold Time	11(40)d	11(40)d	17(40)d

ANL-W GROUND WATER MONITORING - EBR II #1 - ORGANOPHOSPHORUS PESTICIDE APPENDIX IX DATA

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AREA	ANL-W		
LOCATION	EBR II #1	MONITORING WELL	
TYPE OF LOCATION		AGW01001JP	
SAMPLE NUMBER		GROUND WATER	
MEDIA		ug/L	
UNITS		5-10-95	
DATE COLLECTED		AGW01001JP	
SDG NUMBER			
FIELD MEASUREMENTS			
Depth (ft)	725		
TARGET COMPOUNDS			
Phorate	0.19	U	
Sulfotetop	0.19	U	
Disulfoton	0.19	U	
Dimethoate	0.19	U	
Methyl parathion	0.19	U	
Parathion	0.19	U	
O,O-Triethyl Phosphorothioate	0.19	U	
Thionazin	0.19	U	
Famphur	0.94	U	
Dilution Factor	1:0		
Field/Shipping Time	2d		
Extraction (Allowed)	Hold Time	5(7)d	
Analytical (Allowed)	Hold Time	10(40)d	

ANL-W GROUND WATER MONITORING - EBR II #2 - ORGANOPHOSPHORUS PESTICIDE APPENDIX IX DATA

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AREA	ANL-W
LOCATION	EBR II #2
TYPE OF LOCATION	MONITORING WELL
SAMPLE NUMBER	AGW00201HN
MEDIA	GROUND WATER
UNITS	ug/L
DATE COLLECTED	5-18-94
SDG NUMBER	AGW00201HN

FIELD MEASUREMENTS	
Depth (ft)	725

TARGET COMPOUNDS

Phorate	10 R
Sulfotep	10 U
Disulfoton	10 U
Dimethoate	10 U
Methyl parathion	10 U
Parathion	10 U
0,0,0-Triethyl Phosphorothioate	0.19 U
Thionazin	0.19 U
Famphur	0.95 U

Dilution Factor	1.0
Field/Shipping Time	2d
Extraction (Allowed)	7(7)d
Analytical (Allowed)	22(40)d
Hold Time	6(7)d
Hold Time	10(40)d

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ANL-W GROUND WATER MONITORING - MW-11 - ORGANOPHOSPHORUS PESTICIDE APPENDIX IX DATA

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AREA	LOCATION	MONITORING WELL	MONITORING WELL
	TYPE OF LOCATION	AGW00301HN	M-11
	SAMPLE NUMBER	GROUND WATER	M-11
MEDIA	UNITS	ug/L	AGW01201JP
DATE COLLECTED		4-13-94	5-9-95
SDG NUMBER		AGW00301HN	AGW01001JP
<u>FIELD MEASUREMENTS</u>			
Depth (ft)	638	654.1	
<u>TARGET COMPOUNDS</u>			
Phorate	10 u	0.19 u	
Sulfotep	10 u	0.19 u	
Disulfoton	10 u	0.19 u	
Dimethoate	10 u	0.19 u	
Methyl parathion	10 u	0.19 u	
Parathion	10 u	0.19 u	
O,O,O-Triethyl Phosphorothioate		0.19 u	
Thionazin		0.19 u	
Famphur		0.95 u	
Dilution Factor	1:0	1:0	
Field/Shipping Time	1d	3d	
Extraction (Allowed) Hold Time	6(7)d	6(7)d	
Analytical (Allowed) Hold Time	8(40)d	10(40)d	

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ANL-W GROUND WATER MONITORING - MW-12 - ORGANOPHOSPHORUS PESTICIDE APPENDIX IX DATA

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AREA	ANL-W M-12	ANL-W M-12	ANL-W M-12	ANL-W M-12
LOCATION	MONITORING WELL AGW00601HN	MONITORING WELL AGW01301JP	MONITORING WELL AGW01701JP	MONITORING WELL AGW02001JP
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	AGW00301HN	AGW01301JP	AGW01701JP	AGW02001JP
MEDIA	ug/L	ug/L	ug/L	ug/L
UNITS	4-12-94	3/20-95	5-16-95	7-31-95
DATE COLLECTED				
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	650	648	715	715
				651
TARGET COMPOUNDS				
Phorate	10 U	0.19 U	0.19 U	0.20 U
Sulfatep	10 U	0.19 U	0.19 U	0.20 U
Disulfoton	10 U	0.19 U	0.19 U	0.20 U
Dimethoate	10 U	0.53 U	0.19 U	0.20 U
Methyl parathion	10 U	0.19 U	0.19 U	0.20 U
Parathion	10 U	0.19 U	0.19 U	0.20 U
O,O-Triethyl Phosphorothioate				0.19 U
Thionazin		0.19 U	0.19 U	0.20 U
Famphur		0.94 U	0.94 U	0.98 U
Dilution Factor	1.0	1.0	1.0	1.0
Field/Shipping Time	2d	2d	2d	1 d
Extraction (Allowed) Hold Time	7(7)d	3(7)d	7(7)d	7(7)d
Analytical (Allowed) Hold Time	9(40)d	20(40)d	12(40)d	12(40)d

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 ANL-W GROUND WATER MONITORING - MW-13 - ORGANOPHOSPHORUS PESTICIDE APPENDIX IX DATA

AREA	ANL-W	ANL-W	ANL-W
LOCATION	M-13	MONITORING WELL	M-13
TYPE OF LOCATION	AGW01401JP	AGW01801JP	AGW02101JP
SAMPLE NUMBER			
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L	ug/L
DATE COLLECTED	3-20-95	5-16-95	7-31-95
SDG NUMBER	AGW01301JP	AGW01701JP	AGW02001JP
FIELD MEASUREMENTS			
Depth (ft)	636	665	643
			642
TARGET COMPOUNDS			
Phorate	0.19 U	0.19 U	0.20 U
Sulfotep	0.19 U	0.19 U	0.20 U
Disulfoton	0.19 U	0.19 U	0.20 U
Dinethoate	0.50 J	0.19 U	0.20 U
Methyl parathion	0.19 U	0.19 U	0.20 U
Parathion	0.19 U	0.19 U	0.20 U
0,0-Triethyl Phosphorothioate	0.19 U	0.19 U	0.20 U
Thionazin	0.19 U	0.19 U	0.20 U
Famphur	0.94 U	0.94 U	0.98 U
Dilution Factor	1.0	1.0	1.0
Field/Shipping Time	2d	2d	1.0
Extraction (Allowed)	7(7)d	3(7)d	2d
Analytical (Allowed)	20(40)d	7(7)d	7(7)d
		12(60)d	13(40)d

ANL-W GROUND WATER MONITORING - EBR II #1 ORGANOCHLORINE PESTICIDE APPENDIX IX DATA

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AREA	ANL-W	LOCATION	EBR II #1	TYPE OF LOCATION	MONITORING WELL	SAMPLE NUMBER	AGW01001FF	MEDIA	GROUND WATER	UNITS	ug/L	DATE COLLECTED	5-10-95	SDG NUMBER	AGW01001FF
<hr/>															
FIELD MEASUREMENTS		Depth (ft)	725												
TARGET COMPOUNDS															
alpha-BHC															
beta-BHC															
delta-BHC															
gamma-BHC (Lindane)															
Heptachlor															
Aldrin															
Heptachlor epoxide															
Endosulfan I															
Dieldrin															
4,4'-DDE															
Endrin															
Endosulfan II															
4,4-DDD															
Endosulfan sulfate															
4,4'-DDT															
Methoxychlor															
alpha-Chlordane															
gamma-Chlordane															
Toxaphene															
Aroclor-1016															
Aroclor-1221															
Aroclor-1232															
Aroclor-1242															
Aroclor-1248															
Aroclor-1254															
Aroclor-1260															
Isoarin															
Kepone															
Endrin Aldehyde															
Dilution Factor															
Field/Shipping Time															
Extraction (Allowed)															
Analytical (Allowed)															
Hold Time															
Hold Time															

ANL-W GROUND WATER MONITORING - EBR II #2 - ORGANOCHLORINE PESTICIDE APPENDIX IX DATA

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AREA	LOCATION	TYPE OF LOCATION	MONITORING WELL	ANL-W	ANL-W	ANL-W
	SAMPLE NUMBER	MEDIA	AGW00201FF	MONITORING WELL	EBR II #2	MONITORING WELL
	UNITS	GROUND WATER	AGW00201HN	MONITORING WELL	AGW0101FF	MONITORING WELL
	DATE COLLECTED	ug/L	5-18-94	5-18-94	5-9-95	5-9-95
	SDG NUMBER		AGW00201FF	AGW00201HN	AGW01001FF	AGW01001HN
	FIELD MEASUREMENTS	Depth (ft)	725	725	725	725
	TARGET COMPOUNDS					
	alpha-BHC	U	0.050	U	0.050	U
	beta-BHC	U	0.050	U	0.050	U
	delta-BHC	U	0.00	U	0.050	U
	gamma-BHC (Lindane)	U	0.050	U	0.050	U
	Heptachlor	U	0.050	U	0.050	U
	Aldrin	U	0.050	U	0.050	U
	Heptachlor epoxide	U	0.1	U	0.050	U
	Endosulfan I	U	0.100	U	0.050	U
	Dieledrin	U	0.050	U	0.100	U
	4,4'-DDE	U	0.050	U	0.100	U
	Endrin	U	0.100	U	0.100	U
	Endosulfan II	U	0.050	U	0.100	U
	4,4'-DDD	U	0.100	U	0.100	U
	Endosulfan sulfate	U	0.500	U	0.100	U
	4,4'-DDT	U	0.100	U	0.100	U
	Methoxychlor	U				
	alpha-Chlordane	U	0.500	U	0.500	U
	gamma-Chlordane	U	0.500	U	0.500	U
	Endrin Ketone	U	10	U	0	U
	Toxaphene	U	2	U	1	U
	Aroclor-1016	U	0.500	U	0.500	U
	Aroclor-1221	U	0.500	U	0.500	U
	Aroclor-1232	U	0.500	U	0.500	U
	Aroclor-1242	U	0.500	U	0.500	U
	Aroclor-1248	U	0.500	U	0.500	U
	Aroclor-1254	U	0.500	U	0.500	U
	Aroclor-1260	U	1	U	0	U
	Isodrin	U				
	Kepone	U	0.200	U	10	U
	Endrin Aldehyde	U	0.200	U	100	R
	Di-allylate	U	0.100	U	10	U
	Chlordane (Technical)	U	0.100	U	10	U
	Chlorobenzilate	U				
Dilution Factor						
Field Shipping Time					1.0	
Extraction (Allowed)					2d	1.0
Hold Time					6(7)d	3d
Analytical (Allowed)					15(40)d	6(7)d
Hold Time					22(40)d	9(40)d

ANL-W GROUND WATER MONITORING - MW-11 - ORGANOCHLORINE PESTICIDE APPENDIX IX DATA

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AREA	ANL-W MW-11	ANL-W MW-11	ANL-W MW-11
LOCATION	MONITORING WELL AGW00301FF GROUND WATER	MONITORING WELL AGW00301HN GROUND WATER	MONITORING WELL AGW01201FF GROUND WATER
SAMPLE NUMBER			
MEDIA	Ug/L	Ug/L	Ug/L
UNITS	4-13.94	4-13.94	5-8.95
DATE COLLECTED	AGW00301FF	AGW00301HN	AGW01001FF
SDG NUMBER			
<u>FIELD MEASUREMENTS</u>			
DEPTH (FT)	638	638	654.1
TARGET COMPOUNDS			
alpha-BHC	0.050 U	0.050 U	0.050 U
beta-BHC	0.050 U	0.100 U	0.050 U
delta-BHC	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	0.050 U	0.050 U	0.050 U
Heptachlor	0.050 U	0.100 U	0.050 U
Aldrin	0.050 U	1 U	0.050 U
Heptachlor epoxide	0.050 U	0.100 U	0.050 U
Endosulfan I	0.050 U	0.050 U	0.050 U
Dieldrin	0.050 U	0.100 U	0.100 U
4,4'-DDE	0.050 U	0.100 U	0.100 U
Endrin	0.100 U	0.100 U	0.100 U
Endosulfan II	0.050 U	0.100 U	0.100 U
4,4'DDD	0.100 U	0.500 U	0.100 U
Endosulfan sulfate	0.500 U	0.100 U	0.100 U
4,4'-DDT	0.100 U	0.100 U	0.100 U
Methoxychlor	2 U	10 U	1 U
Endrin Ketone			
alpha-Chlordane			
gamma-Chlordane			
Toxaphene	2 U		
Aroclor-1016	0.500 U	0.500 U	0.500 U
Aroclor-1221	0.500 U	0.500 U	0.500 U
Aroclor-1232	0.500 U	0.500 U	0.500 U
Aroclor-1242	0.500 U	0.500 U	0.500 U
Aroclor-1248	0.500 U	0.500 U	0.500 U
Aroclor-1254	1 U		1 U
Aroclor-1260			
Isodrin			
Kepone			
Endrin Aldehyde	0.200 U	10 U	0.100 U
Di-allate			
Chlordane (Technical)	0.100	10 U	10 U
Chlorbenzilate			
Dilution Factor	1.0	1.0	1.0
Field/Shipping Time	6(7)d	6(7)d	6(7)d
Extraction (Allowed)	Hold Time	8(40)d	9(40)d
Analytical (Allowed)	Hold Time		

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ANL-W GROUND WATER MONITORING - MW-12 - ORGANOCHLORINE PESTICIDE APPENDIX IX DATA

AREA	LOCATION	TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	MEDIA	GROUND WATER	AGW00401HN	AGW01301JP	AGW01701FF	AGW0201FF	AGW02701FF
UNITS	ug/L	ug/L	4-12-94	4-12-94	5-16-95	7-31-95	10-25-95
DATE COLLECTED	SDG NUMBER		AGW00301HN	AGW01301JP	AGW01701FF	AGW0201FF	AGW02701FF
FIELD MEASUREMENTS	Depth (ft)	650	650	648	715	715	651
TARGET COMPOUNDS							
alpha-BHC		0.050 U		0.047 U	0.050 U	0.050 U	0.046 U
beta-BHC		0.050 U		0.047 U	0.050 U	0.050 U	0.046 U
delta-BHC		0.100 U		0.047 U	0.050 U	0.050 U	0.046 U
gamma-BHC (Indane)		0.050 U		0.047 U	0.050 U	0.050 U	0.046 U
Heptachlor		0.050 U		0.047 U	0.050 U	0.050 U	0.046 U
Aldrin		0.050 U		0.047 U	0.050 U	0.050 U	0.046 U
Heptachlor epoxide		0.100 U		0.047 U	0.050 U	0.050 U	0.046 U
Endosulfan I		0.050 U		0.094 U	0.100 U	0.100 U	0.093 U
Dieldrin		0.050 U		0.094 U	0.100 U	0.100 U	0.093 U
4,4'-DDE		0.050 U		0.094 U	0.100 U	0.100 U	0.093 U
Endrin		0.100 U		0.094 U	0.100 U	0.100 U	0.093 U
Endosulfan II		0.050 U		0.094 U	0.100 U	0.100 U	0.093 U
4,4'-DDD		0.100 U		0.094 U	0.100 U	0.100 U	0.093 U
Endosulfan sulfate		0.500 U		0.094 U	0.100 U	0.100 U	0.093 U
4,4'-DDT		0.100 U		0.094 U	0.100 U	0.100 U	0.093 U
Methoxychlor		2 U		0.470 U	0.500 U	0.500 U	0.460 U
Endrin ketone		10 U		0.470 U	0.500 U	0.500 U	0.460 U
alpha-Chlordane				0.470 U	0.500 U	0.500 U	0.460 U
gamma-Chlordane				0.940 U	1 U	1 U	0.930 U
Toxaphene		2 U			0.470 U	0.500 U	0.460 U
Aroclor-1016		0.500 U		0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1221		0.500 U		0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1232		0.500 U		0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1242		0.500 U		0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1248		0.500 U		0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1254		1 U		0.240 U	1 U	1 U	0.230 U
Aroclor-1260		1 U		0.940 U	1 U	1 U	0.930 U
Isodrin				0.094 U	0.100 U	0.100 U	0.093 U
Kepone				0.470 U	0.500 U	0.500 U	0.460 U
Endrin Aldehyde		0.200 U		0.094 U	0.100 U	0.100 U	0.093 U
Di-alllate					10 U	10 U	
Chlordane (Technical)		0.100			10 U	10 U	
Chlorobenzilate							
Dilution Factor		1.0		1.0		1.0	1.0
Field/Shipping Time		2d		2d		2d	2d
Extraction (Allowed)		7(7)d		7(7)d		7(7)d	7(7)d
Analytical (Allowed)		10(40)d		9(40)d		11(40)d	10(40)d

ANL-W GROUND WATER MONITORING - MW-13 - ORGANOCHLORINE PESTICIDE APPENDIX IX DATA

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AREA	LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	MEDIA	AGW01401FF GROUND WATER	AGW01801FF GROUND WATER	AGW02101FF GROUND WATER
UNITS	DATE COLLECTED	159/L	159/L	159/L
SDG NUMBER		AGW01301FF	AGW01701FF	AGW02001FF
FIELD MEASUREMENTS	DEPTH (FT)	636	665	643
TARGET COMPOUNDS				
alpha-BHC	0.047 U	0.050 U	0.050 U	0.046 U
beta-BHC	0.047 U	0.050 U	0.050 U	0.046 U
delta-BHC	0.047 U	0.050 U	0.050 U	0.046 U
gamma-BHC (Lindane)	0.047 U	0.050 U	0.050 U	0.046 U
Heptachlor	0.047 U	0.050 U	0.050 U	0.046 U
Aldrin	0.047 U	0.050 U	0.050 U	0.046 U
Heptachlor epoxide	0.047 U	0.050 U	0.050 U	0.046 U
Endosulfan I	0.094 U	0.100 U	0.100 U	0.093 U
Endosulfan II	0.094 U	0.100 U	0.100 U	0.093 U
Dieldrin	0.094 U	0.100 U	0.100 U	0.093 U
4,4'-DDT	0.094 U	0.100 U	0.100 U	0.093 U
Endosulfan sulfate	0.094 U	0.100 U	0.100 U	0.093 U
4,4'-DDT	0.094 U	0.100 U	0.100 U	0.093 U
Methoxychlor	0.470 U	0.500 U	0.500 U	0.460 U
alpha-Chlordane	0.470 U	0.500 U	0.500 U	0.460 U
gamma-Chlordane	0.940 U	1 U	1 U	0.930 U
Toxaphene	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1016	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1221	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1232	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1242	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1248	0.470 U	0.500 U	0.500 U	0.460 U
Aroclor-1254	0.940 U	1 U	1 U	0.930 U
Aroclor-1260	0.940 U	1 U	1 U	0.930 U
Isodrin	0.094 U	0.100 U	0.100 U	0.093 U
Kepone	0.470 U	0.500 U	0.500 U	0.460 U
Endrin Aldehyde	0.094 U	0.100 U	0.100 U	0.093 U
Dilution Factor	1.0	1.0	1.0	1.0
Field/Shipping Time	2d	2d	2d	2d
Extraction (Allowed)	Hold Time	3(7)d	4(7)d	5(7)d
Analytical (Allowed)	Hold Time	9(40)d	7(40)d	10(40)d

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ANL-W GROUND WATER MONITORING - MW-12 - SW-846 METHOD 8150 ORGANOCHLORINE HERBICIDE DATA

AREA	ANL-W	ANL-W	ANL-W	ANL-W
LOCATION	M-12	M-12	M-12	M-12
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGM01301FF	AGM01701UH	AGM02001FF	AGM02701UH
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	3-20-95	5-16-95	7-31-95	10-25-95
SDG NUMBER	AGM01301FF	AGM01701UH	AGM02001FF	AGM02701UH
FIELD MEASUREMENTS				
Depth (ft)	648	715	715	651
TARGET COMPOUNDS				
2,4-D	0.94 U	0.94 U	1 U	0.93 U
Silvex	0.47 U	0.47 U	0.50 U	0.46 U
2,4,5-T	0.47 U	0.47 U	0.50 U	0.46 U
Dilution Factor	1.0	1.0	1.0	1.0
Field/Shipping Time	2d	2d	2d	2d
Extraction (Allowed) Hold Time	7(7)d	3(7)d	3(7)d	5(7)d
Analytical (Allowed) Hold Time	20(40)d	5(40)d	4(40)d	3(40)d
2-27-96				

ANL-W GROUND WATER MONITORING - MW-13 - SW-846 METHOD 8150 ORGANOCHLORINE HERBICIDE DATA

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AREA	ANL-W MW-13	ANL-W MW-13	ANL-W M-13	ANL-W M-13
LOCATION	MONITORING WELL AGW01401FF	MONITORING WELL AGW01801UH	MONITORING WELL AGW0201UH	MONITORING WELL AGW02801UH
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	49/L	5-16-95	7-31-95	10-25-95
MEDIA UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	3-20-95	AGW01701UH	AGW02001FF	AGW02701UH
SDG NUMBER	AGW01301FF			
FIELD MEASUREMENTS				
Depth (ft)	636	665	643	642
TARGET COMPOUNDS				
2,4-D	0.94 U	0.94 U	1 U	0.93 U
Silvex	0.47 U	0.47 U	0.50 U	0.46 U
2,4,5-T	0.47 U	0.47 U	0.50 U	0.46 U
Dilution Factor	1.0	1.0	1.0	1.0
Field/Shipping Time	2d	2d	2d	2d
Extraction (Allowed)	7(7)d	3(7)d	3(7)d	5(7)d
Analytical (Allowed)	20(40)d	5(40)d	4(40)d	3(40)d

2-27-96

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ANL-W GROUND WATER MONITORING - MW-12 - INORGANIC DATA

ANALYSTS	FIELD MEASUREMENTS		ANL-W MW-12 MONITORING WELL AGW00301AM GROUND WATER 4-12-94 AGW00301AM		ANL-W MW-12 MONITORING WELL AGW01301AM GROUND WATER 3-20-95 AGW01301AM		ANL-W MW-12 MONITORING WELL AGW01701AM GROUND WATER 5-16-95 AGW01701AM		ANL-W MW-12 MONITORING WELL AGW02001AM GROUND WATER 7-31-95 AGW02001AM	
	Depth (ft)		650	648	715		715		715	
<u>Aluminum</u>			49.0 U	67.7 BU	20.7 *U		64.1 *		54.7 U	
<u>Antimony</u>			5.0 U	27.4 B	26.5 UN		1.6 U*		1.6 U	
<u>Arsenic</u>			3.0 UW	1.7 B	2.3 *		53.6		0.40 U	
<u>Barium</u>			57.7 B	57.5 BU	58.7					
<u>Beryllium</u>			1.5 BU	0.70 U	0.70 U					
<u>Cadmium</u>			6.2	3.5 U	3.5 U					
<u>Calcium</u>			36200 N	37900 EJ	38500 EJ		3.0 U		3.0 U	
<u>Chromium</u>			7.0 U	4.2 U	4.4 U		9.7 U		9.7 U	
<u>Cobalt</u>			11.0 UW	3.3 U	3.3 U		9.9 U		9.9 U	
<u>Copper</u>			8.0 U	10.1 B	3.1 U		9.5 U			
<u>Cyanide</u>						5.0 U				
<u>Iron</u>			1610 N*J	21.4 BU	52.6 *U		37.1 *U			
<u>Lead</u>			1.0 U	10.3	1.5 MUJ		2.9 *U			
<u>Magnesium</u>			10100	11400 EJ	11200 EJ		10100		3.6 U	
<u>Manganese</u>			3.0 U	3.8 U	3.8 U					
<u>Mercury</u>						0.10 U		0.10 U		
<u>Nickel</u>						10.3 U		10.3 U		
<u>Potassium</u>						6130		5450		
<u>Selenium</u>						0.80 MUJ		4.4 *U		
<u>Silver</u>						3.5 U		3.5 U		
<u>Sodium</u>			18800	20600	19800 EJ		18400			
<u>Thallium</u>			1.0 U	1.3 U	2.3 U		1.7 U			
<u>Tin</u>			143 U	26.2 U	26.2 U		22.5 U			
<u>Vanadium</u>			13.0 U	6.7 U	7.0 *		6.7			
<u>Zinc</u>			18.5 B	77.2 *J	76.8		96.3 *J			
Total (All owned)	Hold Time ^a		6(180)d	5(180)d	9(180)d		11(180)d			
Total (All owned)	Hold Time ^b		16(28)d	8(28)d	6(28)d		8(28)d			
Total (All owned)	Hold Time ^c		6(180)d	5(180)d	6(180)d		15(180)d			
Total (All owned)	Hold Time ^d					6(12)d				

a. ICP/FAAS

b. CVAA

c. GFAS

d. Cyanide

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ANL-W GROUND WATER MONITORING • MW-12 - INORGANIC DATA

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AREA	ANL-W M-12	ANL-W M-12	ANL-W M-12
LOCATION	MONITORING WELL AGW0201C2	MONITORING WELL AGW0201AM	MONITORING WELL AGW0201C2
SAMPLE NUMBER	GROUND WATER 49/L	GROUND WATER 10-25-95 AGW01501AM	GROUND WATER 10-25-95 AGW01501AM
MEDIA UNITS SDG NUMBER	7-31-95	AGW0201AM	AGW01501AM
<u>FIELD MEASUREMENTS</u>			
Depth (ft)	715	651	651
<u>ANALYTES</u>			
Aluminum			
Antimony	43.2 U		
Arsenic	1.9 N		
Barium	55.4		
Beryllium	1.5 U		
Cadmium	3.4 U		
Calcium			
Chromium	9.6 U		
Cobalt	2.7 U		
Copper	4.7 U		
Cyanide	5.0 U		
Iron			
Lead	1.3 NU		
Magnesium			
Manganese			
Mercury	0.10 UNA		
Nickel	14.9 U		
Potassium			
Selenium	1.6 UNA		
Silver	9.1 U		
Sodium			
Thallium	0.90 UNA		
Tin	32.8 U		
Vanadium	6.8		
Zinc	56.3 EN*J		
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b		
Total (Allowed)	Hold Time ^c		
Total (Allowed)	Hold Time ^d		
	3(12)d		
	7(12)d		
	9(180)d		
	7(28)d		
	9(180)d		

a. ICP/FAAS

b. CVAA

c. GFAAS

d. Cyanide

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ANL-W GROUND WATER MONITORING · EBR 11 #1 - INORGANIC DATA

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AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA	UNITS	DATE COLLECTED	SDG NUMBER	ANL-W EBR 11 #1 MONITORING WELL AGW01001AM GROUND WATER ug/L	ANL-W EBR 11 #1 MONITORING WELL AGW0201LA GROUND WATER ug/L	5-10-95	8-29-95	AGW02301LA
FIELD MEASUREMENTS												
depth (ft)												
ANALYTES								725	725			
ATLANTIC												
Antimony								26.5	56.1	U	27.2	U
Arsenic								2.9	2.5		36.2	
Barium								37.3	0.70	U	0.70	U
Beryllium								0.70				
Cadmium								3.5	3.1	U	39200	ENJ
Calcium								4.2	4.3		2.9	*
Chromium								3.3	3.1	UN	3.1	UN
Cobalt								3.1	1.9			
Copper												
Iron									583			
Lead								1.1	2.1	NU	12300	EJ
Magnesium									3.3	U		
Manganese								0.10	0.10	U		
Mercury												
Nickel								10.3	6.9	U	3350	
Potassium									1.5	U		
Selenium								3.2	2.5			
Silver									16.8	*		
Sodium									17600			
Thallium												
Tin								1.8	2.0	U	40.9	
Vanadium								26.2	6.7	U	6.6	
Zinc									16.8	*	15.1	*
Total (Allowed) Hold Time ^a								10(180)d	3(180)d			
Total (Allowed) Hold Time ^b								6(28)d	8(28)d			
Total (Allowed) Hold Time ^c								10(180)d	7(180)d			

- a. ICP/FAAS
 b. CVAAS
 c. GFAAS

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ANL-W GROUND WATER MONITORING - EBR II #2 - INORGANIC DATA

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AREA	ANL-W	ANL-W	ANL-W
LOCATION	EBR II #2	EBR II #2	EBR II #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW00201AM	AGW00201AM	AGW00201LA
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L	ug/L
DATE COLLECTED	5-19-94	5-9-95	8-28-95
SDG NUMBER	AGW00201AM	AGW00201AM	AGW00201LA
FIELD MEASUREMENTS			
Depth (ft)	725	725	725
ANALYTES			
Aluminum	70.0 BU	26.5 U	45.1 U
Antimony	15.0 U	2.5 U	27.2 U
Arsenic	3.8 BU	42.1 U	2.0 U
Barium	35.6 B	0.70 U	35.5 U
Beryllium	1.0 U		0.70 U
Cadmium	3.3 BU	3.5 U	3.1 U
Calcium	364.00	13.5 *	39100 ENJ
Chromium	8.4 BU	3.3 U	3.6 U
Cobalt	11.0 U	4.6 N	2.9 U*
Copper	8.0 U		2.2 U
Iron	35.0 U	0.70 U	24.1 U
Lead	1.8 BU		2.7 NU
Magnesium	11900 NJ		12400 EJ
Manganese	3.0 U		3.3 U
Mercury	0.10 U	0.10 U	0.17 U
Nickel	40.9 U	10.3 U	6.9 U
Potassium	2860 B		3430 U
Selenium	2.0 MU	2.1 U	1.5 U
Silver	2.0 MU	3.5 U	2.5 U
Sodium	16800		18000
Thallium	1.0 U	1.8 U	2.0 U
Tin	143 U	26.2 U	40.9 U
Vanadium	13.0 U	7.6 U	5.7 U
Zinc	164 N*J	20.5 *U	41.0 *
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b		
Total (Allowed)	Hold Time ^c		
Total (Allowed)	Hold Time ^d		
		11(180)d	4(180)d
		22(28)d	9(28)d
		25(180)d	8(180)d
		11(180)d	

- a. ICP/FAAS
 b. CVAA
 c. GFAs
 d. Cyanide

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ANL-W GROUND WATER MONITORING - MW-11 - INORGANIC DATA

AREA		ANL-W MW H-11		ANL-W MW H-11	
LOCATION	TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER		AGW00301AM	AGW01201AM	AGW0301LA	AGW0301LA
MEDIA UNITS	GROUND WATER	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	4-13-94	5-9-95	5-9-95	8-29-95	8-29-95
SDG NUMBER	AGW00301AM	AGW01001AM	AGW0301LA	AGW0301LA	AGW0301LA
<u>FIELD MEASUREMENTS</u>		638	654.1	640	
Depth (ft)					
ANALYTES					
Aluminum	49.0 U	47.3 U			
Antimony	5.0 U	26.5 U	27.2 U		
Arsenic	3.0 U	2.7	2.0 U		
Barium	35.0 B	34.6	36.9		
Beryllium	1.1 BU	0.70 U	0.70 U		
Cadmium	2.9 B	3.5 U	3.1 U		
Calcium	37700 NJ	37700 ENJ	38000 ENJ		
Chromium	7.0 U	15.5 *	5.0		
Cobalt	11.0 U	3.3 U	3.2 *		
Copper	15.8 B	16.3 N	4.4		
Iron	218 NJ				
Lead	1.3 B	0.70 U	1.0 UN		
Magnesium	12500	12200 EJ			
Manganese	3.0 U	3.3 U			
Mercury	0.10 *U	0.10 U	0.10 U		
Nickel	15.0 U	10.3 U	6.9 U		
Potassium	3360 BN	2990			
Selenium	3.0 NMJ	2.1 U	1.5 UJ		
Silver	2.0 U	3.5 U	2.5 U		
Sodium	18000	17700			
Thallium	1.0 U	1.8 U	2.0 U		
Tin	143 U	26.2 U	40.9 U		
Vanadium	20.3 B	6.7 U	7.4		
Zinc	8.0 B	33.5 *	26.6 *		
Total (Allowed)	Hold Time ^a				
Total (Allowed)	Hold Time ^b				
Total (Allowed)	Hold Time ^c				

- a. ICP/FAAS
 b. CV/AAS
 c. GF/FAAS

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ANL-W GROUND WATER MONITORING - MW-13 - INORGANIC DATA

Page 1 of 2

AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW01401AM	MONITORING WELL AGW01801AM	MONITORING WELL AGW02101AM	MONITORING WELL AGW02001AM
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	3-20-95	5-16-95	5-16-95	7-31-95
MEDIA UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	AGW01301AM	AGW01701AM	AGW01701AM	AGW02001AM
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	636	665	665	643
ANALYTES				
Aluminum	62.0 BU	18.0 *UJ		69.5 *
Antimony	26.5 U	26.5 UN		54.7 U
Arsenic	2.1 B	3.1 *U		1.6 U*
Barium	40.0 B	36.5		39.8
Beryllium	0.70 U	0.70 U		0.40 U
Cadmium	3.5 U	3.5 U		3.0 U
Calcium	42000 EJ	41600 EJ		42100
Chromium	4.2 U	4.2 U		9.7 U
Cobalt	3.3 U	3.3 U		9.9 U
Copper	7.8 B	3.4		9.5 U
Cyanide				5.0 U
Iron	37.1 BU	71.6 *U		49.2 *
Lead	4.9 NU	1.5 NUJ		2.0 *U
Magnesium	13900 EJ	13000 EJ		13700
Manganese	3.8 U	3.8 U		5.5
Mercury	0.10 U	0.10 U		0.10 U
Nickel	10.3 U	10.3 U		21.0 U
Potassium	6160	5380		6040
Selenium	0.80 NUJ	1.2 *U		1.2 NUJ
Silver	3.5 U	3.5 U		6.0 U
Sodium	22400	21000 EJ		21400
Thallium	1.3 U	2.3 U		1.7 U
Tin	26.2 U	26.2 U		22.5 U
Vanadium	9.3 B	7.4 *		6.6 U
Zinc	31.6 *U	11.3 U		67.2 *U
Total (Allowed)	5(180)d	9(180)d		11(180)d
Total (Allowed)	8(28)d	6(28)d		8(28)d
Total (Allowed)	5(180)d			15(180)d
Total (Allowed)			6(12)d	3(12)d

- a. ICP/FAAS
- b. CVAAS
- c. GFAAS
- d. Cyanide

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ANL-W GROUND WATER MONITORING • MW-13 - INORGANIC DATA

Page 2 of 2

AREA	LOCATION	TYPE OF LOCATION	SAMPLE NUMBER	MEDIA UNITS	DATE COLLECTED	SDG NUMBER	ANL-W M-13	MONITORING WELL AGW02801AM	GROUND WATER ug/L	10-25-95	10-25-95 AGW01501AM
FIELD MEASUREMENTS											
	Depth (ft)	642									
ANALYTES											
Aluminum											
Antimony							105	3.6 N			
Arsenic							43.0	1.5 U			
Barium											
Beryllium											
Cadmium							3.4 U				
Calcium											
Chromium											
Cobalt											
Copper											
Cyanide											
Iron											
Lead							3.8 NU				
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Tin											
Vanadium											
Zinc											
Total (Allowed)		Hold Time ^a									
Total (Allowed)		Hold Time ^b									
Total (Allowed)		Hold Time ^c									
Total (Allowed)		Hold Time ^d									
Total (Allowed)		Hold Time ^d									

a. ICP/FAAS

b. CVAAS

c. GFAAS

d. Cyanide

ANL-W GROUND WATER MONITORING - INORGANIC FIELD BLANK DATA

Page 1 of 1

AREA	ANL-W
LOCATION	QC
TYPE OF LOCATION	FIELD BLANK
SAMPLE NUMBER	AGW01501AM
MEDIA	WATER
UNITS	ug/L
DATE COLLECTED	10-25-95
SDG NUMBER	AGW01501AM
ANALYTES	
Antimony	99.2
Arsenic	91.5 N
Barium	343
Beryllium	41.8
Cadmium	44.7
Chromium	103
Cobalt	180
Copper	217
Lead	64.0 N
Mercury	1.8 NJ
Nickel	121
Selenium	72.0 R
Silver	49.0 U
Thallium	40.0 NJ
Tin	32.8 U
Vanadium	174
Zinc	301 EN*J
Total (Allowed) Hold Time ^a	9(180)d
Total (Allowed) Hold Time ^b	7(28)d
Total (Allowed) Hold Time ^c	9(180)d

^{a.} ICP/FAAS^{b.} CVAAS^{c.} GFAAS

2-27-96

ANL-W GROUND WATER MONITORING - EBR II #1 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA

Page 1 of 1

AREA	LOCATION	EBR II #1	EBR II #1	EBR II #1	EBR II #1
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW01001FX	AGW01001R8	AGW02401FX	AGW02401R8	AGW02401FX
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	PCi/L D	PCi/L D	PCi/L D	PCi/L D	PCi/L D
DATE COLLECTED	5-9-95 Q	5-9-95 Q	8-28-95 Q	8-28-95 Q	8-28-95 Q
SDG NUMBER	AGW01001FX F	AGW01001FX F	AGW02301FX F	AGW02301FX F	AGW02301FX F
<u>FIELD MEASUREMENTS</u>					
Depth (ft)	725	725	725	725	725
<u>Gross Alpha</u>	1.00E+00 ± 8.00E-01 U				3.00E+00 ± 1.00E+00
<u>Gross Beta</u>	3.80E+00 ± 1.20E+00				3.00E+00 ± 1.10E+00
<u>Beta Emitters</u>					
Technetium - 99	2.00E-01 ± 8.00E-01 U				0.00E+00 ± 6.00E-01 U
Tritium					1.13E+02 ± 1.92E+02 U
<u>Gamma Emitters</u>					
Antimony - 125					
Cerium	- 144				
Cesium	- 134				
Cesium	- 137				
Cobalt	- 58				
Cobalt	- 60				
Europium	- 152				
Europium	- 154				
Ruthenium	- 103				
Ruthenium	- 106				

a. The DQF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - EBR II #2 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA

Page 1 of 1

AREA	ANL-W	ANL-W	ANL-W	ANL-W
LOCATION	EBR II #2	EBR II #2	EBR II #2	EBR II #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW01101FX	AGW01101R8	AGW02501FX	AGW02501R8
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	PCi/L D	PCi/L D	PCi/L D	PCi/L D
DATE COLLECTED	5-9-95 Q	5-9-95 Q	8-29-95 Q	8-29-95 Q
SDG NUMBER	AGW01001FX F	AGW01001FX F	AGW02301FX F	AGW02301FX F
FIELD MEASUREMENTS				
Depth (ft)	725	725	725	725
<u>Gross Alpha</u>	1.80E+00 ± 1.00E+00 U		1.70E+00 ± 9.00E-01	
<u>Gross Beta</u>	3.80E+00 ± 1.20E+00		2.60E+00 ± 1.10E+00	
<u>Beta Emitters</u>				
Techneptium - 99	8.00E-01 ± 8.00E-01 U	0.00E+00 ± 1.20E+02 U	1.00E-01 ± 5.00E-01 U	0.00E+00 ± 1.86E+02 U
<u>Gamma Emitters</u>				
Antimony - 125	-----	-----	-----	-----
Cerium - 144	-----	-----	-----	-----
Cesium - 134	-----	-----	-----	-----
Cesium - 137	-----	-----	-----	-----
Cobalt - 58	-----	-----	-----	-----
Cobalt - 60	-----	-----	-----	-----
Europium - 152	-----	-----	-----	-----
Europium - 154	-----	-----	-----	-----
Ruthenium - 103	-----	-----	-----	-----
Ruthenium - 106	-----	-----	-----	-----

b. The DQF column contains any data qualifier flags.

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ANL-W GROUND WATER MONITORING - MW-11 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA

Page 1 of 2

AREA	ANL-W LOCATION M-11 MONITORING WELL AGW0301FX GROUND WATER PCi/L D 4-13-94 Q AGW0301FX E	ANL-W LOCATION M-11 MONITORING WELL AGW0301R8 GROUND WATER PCi/L D 4-13-94 Q AGW0301FX E	ANL-W LOCATION M-11 MONITORING WELL AGW01201R8 GROUND WATER PCi/L D 5-9-95 Q AGW01001FX F	ANL-W LOCATION M-11 MONITORING WELL AGW01201FX GROUND WATER PCi/L D 5-9-95 Q AGW01001FX F
<u>FIELD MEASUREMENTS</u>				
Depth (ft)	638	638	654.1	640
<u>Gross Alpha</u>	4.20E+00 ± 1.10E+00		2.00E-01 ± 8.00E-01 U	2.70E+00 ± 9.00E-01
<u>Gross Beta</u>	6.30E+00 ± 1.10E+00		4.30E+00 ± 1.20E+00	2.50E+00 ± 1.10E+00
<u>Beta Emitters</u>				
Technetium - 99	2.00E-01 ± 4.00E-01 U	9.00E+01 ± 1.10E+02 U	5.00E-01 ± 7.00E-01 U	0.00E+00 ± 1.15E+02 U
Tritium				
<u>Gamma Emitters</u>				
Antimony - 125				
Cerium - 144				
Cesium - 134				
Cesium - 137				
Cobalt - 58				
Cobalt - 60				
Europium - 152				
Europium - 154				
Ruthenium - 103				
Ruthenium - 106				

a. The DQF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - MW-11 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA (Continued)

Page 2 of 2

<u>AREA</u>	ANL-W
<u>LOCATION</u>	M-11
<u>TYPE OF LOCATION</u>	MONITORING WELL
<u>SAMPLE NUMBER</u>	AGW02301RB
<u>MEDIA</u>	GROUND WATER
<u>UNITS</u>	PCi/L D
<u>DATE COLLECTED</u>	8-29-95 Q
<u>SDG NUMBER</u>	AGW02301FX F
 <u>FIELD MEASUREMENTS</u>	
<u>Depth (ft)</u>	640
 <u>Gross Alpha</u>	
 <u>Gross Beta</u>	
 <u>Beta Emitters</u>	
Technetium - 99	0.00E+00 ± 1.86E+02 U
Tritium	
 <u>Gamma Emitters</u>	
Antimony - 125	
Cerium - 144	
Cesium - 134	
Cesium - 137	
Cobalt - 58	
Cobalt - 60	
Europium - 152	
Europium - 154	
Ruthenium - 103	
Ruthenium - 106	

a. The DAF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - MH-12 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA

Page 1 of 3

AREA	ANL-W MH-12	ANL-W MH-12	ANL-W MH-12	ANL-W MH-12
LOCATION	MONITORING WELL AGW00601EH	MONITORING WELL AGW01301EH	MONITORING WELL AGW01301R8	MONITORING WELL AGW01301RI
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	PCi/L D 4-12-94 Q	PCi/L D 3-20-95 Q	PCi/L D 3-20-95 Q	PCi/L D 3-20-95 Q
MEDIA				
UNITS				
DATE COLLECTED	AGW00301FX E	AGW01301EH F	AGW01301EH F	AGW01301EH F
SDG NUMBER				
FIELD MEASUREMENTS	650	648	648	715
Depth (ft)				
Gross Alpha	2.80E+00 ± 1.00E+00	1.00E+00 ± 8.00E-01 U		1.70E+00 ± 1.00E+00 U
Gross Beta	8.10E+00 ± 1.10E+00	6.50E+00 ± 1.20E+00		6.40E+00 ± 1.30E+00
Alpha Emitters				
Americium - 241	7.00E-02 ± 7.00E-02 U	3.70E-01 ± 1.00E-01 J		4.00E-02 ± 3.00E-02 U
Neptunium - 237	2.80E-01 ± 1.10E-01 UJ	7.10E+00 ± 6.00E-01		2.80E+00 ± 2.00E-01
Plutonium - 238	0.00E+00 ± 4.00E-02 U	0.00E+00 ± 7.00E-02 U		6.00E-02 ± 5.00E-02 U
Plutonium - 239,240	0.00E+00 ± 7.00E-02 U	0.00E+00 ± 7.00E-02 U		0.00E+00 ± 5.00E-02 U
Plutonium - 241		0.00E+00 ± 1.30E+00 U		
Uranium - 234	7.00E-01 ± 3.00E-01 U	1.50E+00 ± 4.00E-01 U		9.00E-01 ± 4.00E-01
Uranium - 235	0.00E+00 ± 2.00E-01 U	1.00E-02 ± 1.20E-01 U		0.00E+00 ± 2.00E-01 U
Uranium - 238	5.00E-01 ± 3.00E-01 U	7.00E-01 ± 3.00E-01 U		6.00E-01 ± 3.00E-01 U
Beta Emitters				
Strontium - 90	0.00E+00 ± 4.00E-01 U	6.00E-01 ± 4.00E-01 U		6.00E-01 ± 3.00E-01 U
Technetium - 99	3.00E-01 ± 4.00E-01 U	0.00E+00 ± 4.00E-01 U		6.00E-01 ± 7.00E-01 U
Tritium				
Gamma Emitters				
Antimony - 125	-----	-----	-----	-----
Cerium - 144	-----	-----	-----	-----
Cesium - 134	-----	-----	-----	-----
Cesium - 137	-----	-----	-----	-----
Cobalt - 58	-----	-----	-----	-----
Cobalt - 60	-----	-----	-----	-----
Europium - 152	-----	-----	-----	-----
Europium - 154	-----	-----	-----	-----
Iodine - 129	-----	-----	-----	-----
Ruthenium - 103	-----	-----	-----	-----
Ruthenium - 106	-----	-----	-----	-----

a. The DQF column contains any data qualifier flags.

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ANL-W GROUND WATER MONITORING - MU-12 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA (Continued)

Page 2 of 3

AREA	ANL-W	ANL-W	ANL-W	ANL-W
LOCATION	M-12	M-12	M-12	M-12
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW01701R8	AGW01701R1	AGW02001EH	AGW02001R8
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	PCi/L D	PCi/L D	PCi/L D	PCi/L D
DATE COLLECTED	5-16-95 Q	5-16-95 Q	7-31-95 Q	7-31-95 Q
SDG NUMBER	AGW01701EH E	AGW01701EH E	AGW02001EH F	AGW02001EH F
FIELD MEASUREMENTS	715	715	715	715
Depth (ft)				
<u>Gross Alpha</u>		1.90E+00 ± 9.00E-01		
<u>Gross Beta</u>		6.50E+00 ± 1.30E+00		
<u>Alpha Emitters</u>				
Americanium - 241		5.30E-01 ± 1.00E-01		
Neptunium - 237		4.00E-01 ± 2.00E-01		
Plutonium - 238		0.00E+00 ± 6.00E-02		
Plutonium - 239, 240		0.00E+00 ± 4.00E-02		
Plutonium - 241				
Uranium - 234		8.00E-01 ± 3.00E-01 J		
Uranium - 235		0.00E+00 ± 1.00E-01		
Uranium - 238		7.00E-01 ± 3.00E-01		
<u>Beta Emitters</u>				
Strontium - 90		7.00E-01 ± 3.00E-01		
Technetium - 99		8.00E-01 ± 4.00E-01		
Tritium	0.00E+00 ± 1.16E+02 U		1.87E+02 ± 1.53E+02	
<u>Gamma Emitters</u>				
Antimony - 125				
Cerium - 144				
Cesium - 134				
Cesium - 137				
Cobalt - 58				
Cobalt - 60				
Euroium - 152				
Euroium - 154				
Iodine - 129			0.00E+00 ± 3.00E-01 U	
Ruthenium - 103				
Ruthenium - 106				

a. The DQF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - MW-12 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA (Continued)

Page 3 of 3

AREA	ANL-W MW-12	ANL-W MW-12
TYPE OF LOCATION	MONITORING WELL AGW02701R1H	MONITORING WELL AGW02701R1H
SAMPLE NUMBER	GROUND WATER	GROUND WATER
MEDIA	PCi/L D	PCi/L D
UNITS	10-25-95 Q	10-25-95 Q
DATE COLLECTED	AGW01501R1 F	AGW01501R1 F
SDG NUMBER		
FIELD MEASUREMENTS		
depth (ft)	651	651
Gross Alpha	1.70E+00 ± 2.30E+00 U	
Gross Beta	3.79E+03 ± 4.00E+01	
Alpha Emitters		
Americium - 241	4.00E-02 ± 7.00E-02 U	
Neptunium - 237	2.30E-10 ± 2.00E-01 U	
Plutonium - 238	0.00E+00 ± 9.00E-01 U	
Plutonium - 239,240	4.00E-02 ± 5.00E-02 U	
Plutonium - 241	4.10E-00 ± 4.20E+00 UW	
Uranium - 234	1.50E-10 ± 4.00E-01 U	
Uranium - 235	0.00E+00 ± 1.00E-01 U	
Uranium - 238	1.90E+00 ± 4.00E-01 U	
Beta Emitters		
Strontium - 90	1.32E+03 ± 6.00E+00 J	
Technetium - 99	1.20E+00 ± 5.00E-01 J	
Tritium	5.50E+01 ± 1.52E+02 U	
Gamma Emitters		
Antimony - 125	-----	
Cerium - 144	-----	
Cesium - 134	-----	
Cesium - 137	-----	
Cobalt - 58	-----	
Cobalt - 60	-----	
Europium - 152	-----	
Europium - 154	-----	
Iodine - 129	-----	
Ruthenium - 103	-----	
Ruthenium - 106	-----	

a. The DQF column contains any data qualifier flags.

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ANL-W GROUND WATER MONITORING - M-13 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA

Page 1 of 3

AREA	ANL-W M-13	ANL-W M-13	ANL-W M-13	ANL-W M-13
LOCATION	MONITORING WELL AGW01401EH	MONITORING WELL AGW01401R8	MONITORING WELL AGW01401R1	MONITORING WELL AGW01801EH
SAMPLE NUMBER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
MEDIA	PCi/L D	PCi/L D	PCi/L D	PCi/L D
UNITS	3-20-95 Q	3-20-95 Q	3-20-95 Q	3-16-95 Q
DATE COLLECTED	AGW01301EH E	AGW01301EH E	AGW01301EH E	AGW01701EH F
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	636	636	636	665
<u>Gross Alpha</u>	2.40E+00 ± 1.00E+00			6.00E-01 ± 9.00E-01 U
<u>Gross Beta</u>	4.60E+00 ± 1.20E+00			5.70E+00 ± 1.30E+00
<u>Alpha Emitters</u>				
Americium - 241	2.00E-02 ± 5.00E-02 UJ			1.50E-01 ± 5.00E-02
Neptunium - 237	3.90E+00 ± 5.00E-01			2.50E+00 ± 2.00E-01
Plutonium - 238	0.00E+00 ± 5.00E-02 U			0.00E+00 ± 8.00E-02 U
Plutonium - 239,240	0.00E+00 ± 5.00E-02 U			1.00E-02 ± 3.00E-02 U
Plutonium - 241	6.00E-01 ± 1.30E+00 U			
Uranium - 234	1.00E+00 ± 3.00E-01			6.00E-01 ± 3.00E-01 U
Uranium - 235	0.00E+00 ± 1.00E-01 U			0.00E+00 ± 2.00E-01 U
Uranium - 238	3.00E-01 ± 2.00E-01 U			1.00E-01 ± 3.00E-01 U
<u>Beta Emitters</u>				
Strontium - 90	0.00E+00 ± 3.00E-01 U			0.00E+00 ± 3.00E-01 U
Technetium - 99	5.00E-01 ± 4.00E-01 U			0.00E+00 ± 7.00E-01 U
Tritium			1.56E+02 ± 1.14E+02 U	0.00E+00 ± 1.17E+02 U
<u>Gamma Emitters</u>				
Antimony - 125	.....		
Cerium - 144	.....		
Cesium - 134	.....		
Cesium - 137	.....		
Cobalt - 58	.....		
Cobalt - 60	.....		
Europtium - 152	.....		
Europtium - 154	.....		
Iodine - 129	.....			6.00E-01 ± 3.00E-01 U
Ruthenium - 103	.....		
Ruthenium - 106	.....		

a. The DQF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - MW-13 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA (Continued)

Page 2 of 3

AREA	LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL
	SAMPLE NUMBER	AGW01801RI	AGW2101EH	AGW2101R8
MEDIA UNITS	DATE COLLECTED	GROUND WATER	GROUND WATER	GROUND WATER
		PC/L D	PC/L D	PC/L D
		5-16-95 Q	7-31-95 Q	7-31-95 Q
		AGW01701EH F	AGW02001EH F	AGW02001EH F
<u>FIELD MEASUREMENTS</u>				
Depth (ft)	665	643	643	643
<u>Gross Alpha</u>				
		5.00E-01 ± 9.00E-01		
<u>Gross Beta</u>				
		5.10E+00 ± 1.40E+00		
<u>Alpha Emitters</u>				
Americium	- 241		2.00E-01 ± 8.00E-02	
Neptunium	- 237		0.00E+00 ± 1.00E-01	
Plutonium	- 238		0.00E+00 ± 6.00E-02	
Plutonium	- 239 240		4.00E-02 ± 3.00E-02	
Plutonium	- 241			
Uranium	- 234		1.00E+00 ± 3.00E-01	J
Uranium	- 235		0.00E+00 ± 9.00E-02	
Uranium	- 238		4.00E-01 ± 2.00E-01	
<u>Beta Emitters</u>				
Strontium	- 90		1.00E-01 ± 3.00E-01	
Technetium	- 99		1.00E-01 ± 4.00E-01	
Tritium			0.00E+00 ± 1.47E+02	
<u>Gamma Emitters</u>				
Antimony	- 125			
Cerium	- 144			
Cesium	- 134			
Cesium	- 137			
Cobalt	- 58			
Cobalt	- 60			
Europium	- 152			
Europium	- 154			
Iodine	- 129		0.00E+00 ± 3.00E-01	U
Ruthenium	- 103			
Ruthenium	- 106		0.00E+00 ± 3.00E-01	U

a. The DQF column contains any data qualifier flags.

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ANL-W GROUND WATER MONITORING - M-13 - ANALYSIS RESULTS FOR RADIONUCLIDE DATA (Continued)

Page 3 of 3

AREA	ANL-W	ANL-W	ANL-W
LOCATION	M-13	M-13	M-13
SAMPLE NUMBER	AGH02801EH	AGH02801R8	AGH02801RI
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	PCi/L	PCi/L	PCi/L
DATE COLLECTED	10-25-95 Q	10-25-95 D	10-25-95 Q
SDG NUMBER	AGH01501R1 F	AGH01501R1 F	AGH01501R1 F
FIELD MEASUREMENTS			
Depth (ft)	642	642	642
<u>Gross Alpha</u>	1.30E+01 ± 4.00E+00		
<u>Gross Beta</u>	6.07E+03 ± 5.00E+01		
<u>Alpha Emitters</u>			
Americium - 241	1.00E+01 ± 1.00E+01	U	
Neptunium - 237	3.00E+01 ± 1.00E+01	U	
Plutonium - 238	2.00E+02 ± 4.00E+02	U	
Plutonium - 239,240	2.00E+02 ± 4.00E+02	U	
Plutonium - 241	0.00E+00 ± 4.40E+00	U	
Uranium - 234	1.50E+00 ± 6.00E+01	U	
Uranium - 235	4.00E+01 ± 4.00E+01	U	
Uranium - 238	1.40E+00 ± 5.00E+01	U	
<u>Beta Emitters</u>			
Strontium - 90	1.33E+03 ± 6.00E+00	J	
Technetium - 99	1.90E+00 ± 5.00E-01		
Tritium		0.00E+00 ± 1.50E+02	U
<u>Gamma Emitters</u>			
Antimony - 125	-----		
Cerium - 144	-----		
Cesium - 134	-----		
Cesium - 137	-----		
Cobalt - 58	-----		
Cobalt - 60	-----		
Euroium - 152	-----		
Euroium - 154	-----		
Iodine - 129	-----		
Ruthenium - 103	-----		
Ruthenium - 106	-----		

a. The DQF column contains any data qualifier flags.

ANL-W GROUND WATER MONITORING - ANALYSIS RESULTS FOR RADIONUCLIDE FIELD BLANK DATA

Page 1 of 1

AREA	ANL-W	ANL-W
LOCATION	QC	QC
TYPE OF LOCATION	FIELD BLANK	FIELD BLANK
SAMPLE NUMBER	AGW01501R8	AGW01501R1
MEDIA	WATER	WATER
UNITS	PCi/L D	PCi/L D
DATE COLLECTED	'10-25-95 Q	'10-25-95 Q
SDG NUMBER	AGW01501R1 E	AGW01501R1 F

Beta Emitters
Tritium $5.40\text{E+}01 \pm 1.51\text{E+}02$ U

Gamma Emitters
Iodine - 129 $0.00\text{E+}00 \pm 3.00\text{E-}01$ U

a. The DQF column contains any data qualifier flags.

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ANL-W GROUND WATER MONITORING - EBR 11 #1 - NON-METAL DATA

ANL-W		ANL-W		ANL-W		ANL-W	
AREA	LOCATION	EBR 11 #1	MONITORING WELL	EBR 11 #1	MONITORING WELL	EBR 11 #1	MONITORING WELL
TYPE OF LOCATION		AGM01001A1	AGM01001PH	AGM01001SD	AGM01001T1	AGM01001U1	AGM01001V1
SAMPLE NUMBER		GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
MEDIA		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
UNITS		5-9.95	5-9.95	5-9.95	5-9.95	5-9.95	5-9.95
DATE COLLECTED		AGM01001A1	AGM01001A1	AGM01001A1	AGM01001A1	AGM01001A1	AGM01001A1
SDG NUMBER							
FIELD MEASUREMENTS							
Depth (ft)		725	725	725	725	725	725
ANALYTES							
Alkalinity		131					
Specific Conductance							
pH				7.9 J			
Total Dissolved Solids					380		
Total Organic Halides							
Total Organic Carbon							
Chloride							
Nitrate							
Sulfate							
Bicarbonate							
Carbonate							
Sulfide							
Total (Allowed) Hold Time ^a		9(14)d					
Total (Allowed) Hold Time ^b				2(28)p			
Total (Allowed) Hold Time ^c					7(28)p		
Total (Allowed) Hold Time ^d						2(1)d*	
Total (Allowed) Hold Time ^e							
Total (Allowed) Hold Time ^f							
Total (Allowed) Hold Time ^g							
Total (Allowed) Hold Time ^h							
Total (Allowed) Hold Time ⁱ							
Total (Allowed) Hold Time ^j							

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document

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ANL-W GROUND WATER MONITORING - EBR II #1 • NON-METAL DATA

Page 2 of 3

AREA	ANL-W EBR II #1 MONITORING WELL AGW01001TT GROUND WATER mg/L 5-9.95 AGW01001A1	ANL-W EBR II #1 MONITORING WELL AGW02401HF GROUND WATER mg/L 8-29.95 AGW02301HF	ANL-W EBR II #1 MONITORING WELL AGW02401ND GROUND WATER mg/L 8-29.95 AGW02301HF	ANL-W EBR II #1 MONITORING WELL AGW02401HF GROUND WATER PH 8-29.95 AGW02301HF
FIELD MEASUREMENTS	Depth (ft)	725	725	725
ANALYTES				
Atmospheric				
Specific Conductance				
pH				
Total Dissolved Solids				
Total Organic Halides				
Total Organic Carbon	23.6			
Chloride		17.1		
Nitrate		6.18 J		
Sulfate		15.6		
Bicarbonate		13.6		
Carbonate			2.0 U	
Sulfide				
Total (Allowed)	Hold Time ^a			
Total (Allowed)	Hold Time ^b			
Total (Allowed)	Hold Time ^c			
Total (Allowed)	Hold Time ^d			
Total (Allowed)	Hold Time ^e			
Total (Allowed)	Hold Time ^f			
Total (Allowed)	Hold Time ^g			
Total (Allowed)	Hold Time ^h			
Total (Allowed)	Hold Time ⁱ			
Total (Allowed)	Hold Time ^j			

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document · 1994/1995 · Method Validation Level A

ANL-W GROUND WATER MONITORING · EBR 11 #1 · NON-METAL DATA

Page 3 of 3

AREA	ANL-W	ANL-W
LOCATION	EBR 11 #1	EBR 11 #1
SAMPLE NUMBER	AG024011	AG024011
MEDIA	GROUND WATER	GROUND WATER
UNITS	ug/L	mg/L
DATE COLLECTED	8-29-95	8-29-95
SDG NUMBER	AG02301HF	AG02301HF
FIELD MEASUREMENTS		
Depth (ft)	725	725
ANALYTES		
Alkalinity		
Specific Conductance		
pH		
Total Dissolved Solids		
Total Organic Halides		
Total Organic Carbon		0.79
Chloride		
Nitrate		
Sulfate		
Bicarbonate		
Carbonate		
Sulfide		
Total (Allowed) Hold Time ^a		
Total (Allowed) Hold Time ^b		
Total (Allowed) Hold Time ^c		
Total (Allowed) Hold Time ^d		
Total (Allowed) Hold Time ^e		
Total (Allowed) Hold Time ^f		
Total (Allowed) Hold Time ^g		
Total (Allowed) Hold Time ^h		
Total (Allowed) Hold Time ⁱ		
Total (Allowed) Hold Time ^j		

a. Method 310.1

ANL-W Ground Water Monitoring S&A Data Document

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ANL-W GROUND WATER MONITORING - EBR II #2 - NON-METAL DATA

Page 1 of 4

AREA	ANL-W	ANL-W	ANL-W	ANL-W
LOCATION	EBR II #2	EBR II #2	EBR II #2	EBR II #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW00201A1	AGW00201A1	AGW00201A1	AGW00201A1
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	ug/L	ug/L	ug/L	ug/L
DATE COLLECTED	5-19-94	5-19-94	5-19-94	5-19-94
SDG NUMBER	AGW00201A1	AGW00201A1	AGW00201A1	AGW00201A1
FIELD MEASUREMENTS				
Depth (ft)	725	725	725	725
ANALYTES				
Alkalinity	138000			
Specific Conductance		95200		
pH		7.86		
Total Dissolved Solids		240000		
Total Organic Halides		J		
Total Organic Carbon				33900
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed)	Hold Time ^a			
Total (Allowed)	Hold Time ^b			
Total (Allowed)	Hold Time ^c			
Total (Allowed)	Hold Time ^d			
Total (Allowed)	Hold Time ^e			
Total (Allowed)	Hold Time ^f			
Total (Allowed)	Hold Time ^g			
Total (Allowed)	Hold Time ^h			
Total (Allowed)	Hold Time ⁱ			
Total (Allowed)	Hold Time ^j			

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document · 1994/1995 · Method Validation Level A

ANL-W GROUND WATER MONITORING - EBR 11 #2 - NON-METAL DATA

AREA	ANL-W EBR 11 #2 MONITORING WELL AGW01101A1 GROUND WATER mg/L	ANL-W EBR 11 #2 MONITORING WELL AGW01101PH GROUND WATER mg/L	ANL-W EBR 11 #2 MONITORING WELL AGW01101SD GROUND WATER umhos/cm	ANL-W EBR 11 #2 MONITORING WELL AGW01101T1 GROUND WATER ug/L	ANL-W EBR 11 #2 MONITORING WELL AGW01101A1 GROUND WATER mg/L
LOCATION	EBR 11 #2 MONITORING WELL AGW01101A1 GROUND WATER mg/L	EBR 11 #2 MONITORING WELL AGW01101PH GROUND WATER mg/L	EBR 11 #2 MONITORING WELL AGW01101SD GROUND WATER umhos/cm	EBR 11 #2 MONITORING WELL AGW01101T1 GROUND WATER ug/L	EBR 11 #2 MONITORING WELL AGW01101A1 GROUND WATER mg/L
SAMPLE NUMBER					
MEDIA					
UNITS					
DATE COLLECTED					
SDG NUMBER					
FIELD MEASUREMENTS					
Depth (ft)	725	725	725	725	725
ANALYTES					
Alkalinity	131				
Specific Conductance		377			
pH			8.0	J	
Total Dissolved Solids				25.5	
Total Organic Halides					
Total Organic Carbon					
Chloride					
Nitrate					
Sulfate					
Bicarbonate					
Carbonate					
Sulfide					
Total (Allowed) Hold Time ^a					
Total (Allowed) Hold Time ^b					
Total (Allowed) Hold Time ^c					
Total (Allowed) Hold Time ^d					
Total (Allowed) Hold Time ^e					
Total (Allowed) Hold Time ^f					
Total (Allowed) Hold Time ^g					
Total (Allowed) Hold Time ^h					
Total (Allowed) Hold Time ⁱ					
Total (Allowed) Hold Time ^j					

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W GROUND WATER MONITORING - EBR II #2 - NON-METAL DATA

Page 3 of 4

AREA	ANL-W	ANL-W	ANL-W	ANL-W
LOCATION	EBR II #2	MONITORING WELL	EBR II #2	EBR II #2
TYPE OF LOCATION	MONITORING WELL	AGW02501HF	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW01011T	GROUND WATER	AGW02501ND	AGW02501ND
MEDIA	GROUND WATER	mg/L	GROUND WATER	GROUND WATER
UNITS	mg/L	mg/L	mg/L	mg/L
DATE COLLECTED	5-9-95	8-28-95	8-28-95	8-28-95
SDG NUMBER	AGW01001A1	AGW02301HF	AGW02301HF	AGW02301HF
FIELD MEASUREMENTS				
Depth (ft)	725	725	725	725
ANALYTES				
Alkalinity			137	
Specific Conductance				367
pH				
Total Dissolved Solids			171	J
Total Organic Halides				
Total Organic Carbon	3.4	19.5		
Chloride		6.58	J	
Nitrate		16.9		
Sulfate			137	
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed)	Hold Time ^a			
Total (Allowed)	Hold Time ^b			
Total (Allowed)	Hold Time ^c			
Total (Allowed)	Hold Time ^d			
Total (Allowed)	Hold Time ^e			
Total (Allowed)	Hold Time ^f			
Total (Allowed)	Hold Time ^g			
Total (Allowed)	Hold Time ^h			
Total (Allowed)	Hold Time ⁱ			
Total (Allowed)	Hold Time ^j			

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020 or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 316.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - EBR 11 #2 - NON-METAL DATA

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AREA	ANL-W	ANL-W
LOCATION	EBR 11 #2	EBR 11 #2
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW02501TT	AGW02501TT
MEDIA	GROUND WATER	GROUND WATER
UNITS	ug/L	mg/L
SDG NUMBER	AGW02301HF	AGW02301HF
<u>FIELD MEASUREMENTS</u>		
Depth (ft)	725	725
ANALYTES		
Alkalinity		
Specific Conductance		
pH		
Total Dissolved Solids		
Total Organic Halides	7.7	
Total Organic Carbon		
Chloride	1.4	
Nitrate		
Sulfate		
Bicarbonate		
Carbonate		
Sulfide		
Total (Allowed) Hold Time ^a		
Total (Allowed) Hold Time ^b		
Total (Allowed) Hold Time ^c		
Total (Allowed) Hold Time ^d	8(28)d	
Total (Allowed) Hold Time ^e		
Total (Allowed) Hold Time ^f		
Total (Allowed) Hold Time ^g		
Total (Allowed) Hold Time ^h		
Total (Allowed) Hold Time ⁱ		
Total (Allowed) Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-11 - NON-METAL DATA

Page 1 of 4

AREA	ANL-W M-11	ANL-W M-11	ANL-W M-11	ANL-W M-11
LOCATION	MONITORING WELL AGW00301A1	MONITORING WELL AGW00301A1	MONITORING WELL AGW00301A1	MONITORING WELL AGW00301A1
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	4-13-94 AGW00301A1	4-13-94 AGW00301A1	4-13-94 AGW00301A1	4-13-94 AGW00301A1
MEDIA	µg/L	µg/L	µg/L	µg/L
UNITS	umhos/cm	umhos/cm	umhos/cm	umhos/cm
DATE COLLECTED				
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	638	638	638	638
ANALYTES				
Alkalinity	136000	357		
Specific Conductance	7.86			
pH	276000			
Total Dissolved Solids			46.2	82.0
Total Organic Halides				3700
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed)	Hold Time ^a	7(14)d	12(28)d	15(28)d
Total (Allowed)	Hold Time ^b	6(7)d		15(28)d
Total (Allowed)	Hold Time ^c			15(28)d
Total (Allowed)	Hold Time ^d			15(28)d
Total (Allowed)	Hold Time ^e			15(28)d
Total (Allowed)	Hold Time ^f			15(28)d
Total (Allowed)	Hold Time ^g			15(28)d
Total (Allowed)	Hold Time ^h			15(28)d
Total (Allowed)	Hold Time ⁱ			15(28)d
Total (Allowed)	Hold Time ^j			15(28)d

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-11 • NON-METAL DATA

Page 2 of 4

AREA	ANL-W MW-11	ANL-W MW-11	ANL-W MW-11	ANL-W MW-11
LOCATION	MONITORING WELL AGW01201A1	MONITORING WELL AGW01201PH	MONITORING WELL AGW01201SD	MONITORING WELL AGW01201T1
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	mg/L	mg/L	mg/L	mg/L
MEDIA	5-9.95	5-9.95	5-9.95	5-9.95
UNITS	AGW01001A1	AGW01001A1	AGW01001A1	AGW01001A1
DATE COLLECTED				
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	654.1	654.1	654.1	654.1
ANALYTES				
Attenuity	131			
Specific Conductance				
pH		364		
Total Dissolved Solids		8.0 J		
Total Organic Halides				9.8
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed) Hold Time ^a	10(14)d			
Total (Allowed) Hold Time ^b		3(28)d		
Total (Allowed) Hold Time ^c			8(28)d	
Total (Allowed) Hold Time ^d				3(1)d*
Total (Allowed) Hold Time ^e				
Total (Allowed) Hold Time ^f				
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document

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ANL-W GROUND WATER MONITORING - MW-11 - NON-METAL DATA

Page 3 of 4

AREA	ANL-W	ANL-W	ANL-W
LOCATION	M-11	M-11	M-11
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW02301HF	AGW02301ND	AGW02301ND
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	mg/L	mg/L	mg/L
DATE COLLECTED	5-9-95	8-29-95	8-29-95
SDG NUMBER	AGW01001A1	AGW02301HF	AGW02301HF
FIELD MEASUREMENTS			
Depth (ft)	654.1	640	640
ANALYTICS			
Alkalinity		136	136
Specific Conductance			360
pH			8.0
Total Dissolved Solids		219	219
Total Organic Halides			
Total Organic Carbon	6.3	19.1	19.1
Chloride		6.52	6.52
Nitrate		J	J
Sulfate		16.6	16.6
Bicarbonate			
Carbonate			
Sulfide			2.0 U
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b	7(14)d	
Total (Allowed)	Hold Time ^c	3(7)d	
Total (Allowed)	Hold Time ^d		2()d
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h		
Total (Allowed)	Hold Time ⁱ		
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020 or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document · 1994/1995 · Method Validation Level A

ANL-W GROUND WATER MONITORING · MW-11 - NON-METAL DATA

Page 4 of 4

<u>AREA</u>	ANL-W	<u>AREA</u>	ANL-W
<u>LOCATION</u>	M-11	<u>LOCATION</u>	M-11
<u>TYPE OF LOCATION</u>	MONITORING WELL	<u>TYPE OF LOCATION</u>	MONITORING WELL
<u>SAMPLE NUMBER</u>	AGW02301T1	<u>SAMPLE NUMBER</u>	AGW02301TT
<u>MEDIA</u>	GROUND WATER	<u>MEDIA</u>	GROUND WATER
<u>UNITS</u>	ug/L	<u>UNITS</u>	mg/L
<u>DATE COLLECTED</u>	8-29-95	<u>DATE COLLECTED</u>	8-29-95
<u>SDG NUMBER</u>	AGW02301HF	<u>SDG NUMBER</u>	AGW02301HF
<u>FIELD MEASUREMENTS</u>			
<u>Depth (ft)</u>	640	<u>Depth (ft)</u>	640
<u>ANALYTES</u>		<u>ANALYTES</u>	
<u>Alkalinity</u>		<u>Alkalinity</u>	
<u>Specific Conductance</u>		<u>Specific Conductance</u>	
<u>pH</u>		<u>pH</u>	
Total Dissolved Solids		Total Dissolved Solids	
Total Organic Halides		Total Organic Halides	
Total Organic Carbon		Total Organic Carbon	
Chloride		Chloride	
Nitrate		Nitrate	
Sulfate		Sulfate	
Bicarbonate		Bicarbonate	
Carbonate		Carbonate	
Sulfide		Sulfide	
Total (Allowed) Hold Time ^a		Total (Allowed) Hold Time ^a	
Total (Allowed) Hold Time ^b		Total (Allowed) Hold Time ^b	
Total (Allowed) Hold Time ^c		Total (Allowed) Hold Time ^c	
Total (Allowed) Hold Time ^d		Total (Allowed) Hold Time ^d	
Total (Allowed) Hold Time ^e		Total (Allowed) Hold Time ^e	
Total (Allowed) Hold Time ^f		Total (Allowed) Hold Time ^f	
Total (Allowed) Hold Time ^g		Total (Allowed) Hold Time ^g	
Total (Allowed) Hold Time ^h		Total (Allowed) Hold Time ^h	
Total (Allowed) Hold Time ⁱ		Total (Allowed) Hold Time ⁱ	
Total (Allowed) Hold Time ^j		Total (Allowed) Hold Time ^j	

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 90208
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-12 - NON-METAL DATA

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AREA	ANL-W MW M-12	MONITORING WELL AGW00401A1	MONITORING WELL AGW00401A1	ANL-W MW M-12	MONITORING WELL AGW01301A1	MONITORING WELL AGW01301A1
LOCATION	MONITORING WELL GROUND WATER	MONITORING WELL GROUND WATER	UNITS	mg/L	mg/L	mg/L
SAMPLE NUMBER	49/L	49/L	DATE COLLECTED	4-12-94	4-12-94	3-20-95
SDG NUMBER	AGW00301A1	AGW00301A1	SDG NUMBER	AGW00301A1	AGW00301A1	AGW00301A1
<u>FIELD MEASUREMENTS</u>						
Depth (ft)	650	650		650	648	648
<u>ANALYTES</u>						
Alkalinity	68000				98.0	
Specific Conductance		235				
pH		9.1				
Total Dissolved Solids		178000				
Total Organic Halides				4100		
Total Organic Carbon						
Chloride						
Nitrate						
Sulfate						
Bicarbonate						
Carbonate						
Sulfide						
Total (Allowed)	(Allowed)	Hold Time ^a		8(14)d		7(12)d
Total (Allowed)	(Allowed)	Hold Time ^b			7(7)d	
Total (Allowed)	(Allowed)	Hold Time ^c				7(7)d
Total (Allowed)	(Allowed)	Hold Time ^d				3(1)d*
Total (Allowed)	(Allowed)	Hold Time ^e				
Total (Allowed)	(Allowed)	Hold Time ^f				
Total (Allowed)	(Allowed)	Hold Time ^g				
Total (Allowed)	(Allowed)	Hold Time ^h				
Total (Allowed)	(Allowed)	Hold Time ⁱ				
Total (Allowed)	(Allowed)	Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-12 · NON-METAL DATA

AREA	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12
LOCATION	MONITORING WELL AGW01301SD GROUND WATER unhos/cm	MONITORING WELL AGW01301T1 GROUND WATER ug/L	MONITORING WELL AGW01301TT GROUND WATER mg/L	MONITORING WELL AGW01301A1 GROUND WATER mg/L
SAMPLE NUMBER				
MEDIA UNITS				
DATE COLLECTED				
SDG NUMBER				
<u>FIELD MEASUREMENTS</u>				
Depth (ft)	648	648	648	648
ANALYTES				
Attenuity				
Specific Conductance	306			
pH				
Total Dissolved Solids			183	
Total Organic Halides		7.7		
Total Organic Carbon				1.1
Chloride				
Nitrate				20.9
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed) Hold Time ^a			3(28)d	
Total (Allowed) Hold Time ^b				7(7)d
Total (Allowed) Hold Time ^c				
Total (Allowed) Hold Time ^d				22(28)d
Total (Allowed) Hold Time ^e				
Total (Allowed) Hold Time ^f				14(28)d
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				16(28)d
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document - 1994/1995 - Method Validation Level A

ANL-W GROUND WATER MONITORING - MU-12 - NON-METAL DATA

Page 3 of 7

AREA	ANL-W M-12 MONITORING WELL AGW01701HF GROUND WATER	ANL-W M-12 MONITORING WELL AGW01701HF GROUND WATER	ANL-W M-12 MONITORING WELL AGW01701ND GROUND WATER	ANL-W M-12 MONITORING WELL AGW01701C2
LOCATION	M-12 MONITORING WELL AGW01701HF GROUND WATER	M-12 MONITORING WELL AGW01701HF GROUND WATER	M-12 MONITORING WELL AGW01701ND GROUND WATER	M-12 MONITORING WELL AGW01701C2
TYPE OF LOCATION				
SAMPLE NUMBER				
MEDIA UNITS				
DATE COLLECTED	5-16-95 AGW01701C2	5-16-95 AGW01701C2	5-16-95 AGW01701C2	5-16-95 AGW01701C2
SDG NUMBER				
<u>FIELD MEASUREMENTS</u>				
pH				
Conductivity (mho/cm)				
Temperature (C)				
Depth (ft)	715	715	715	715
ANALYTES				
Alkalinity				
Specific Conductance				
pH				
Total Dissolved Solids				
Total Organic Halides				
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed) Hold Time ^a				
Total (Allowed) Hold Time ^b				
Total (Allowed) Hold Time ^c				
Total (Allowed) Hold Time ^d				
Total (Allowed) Hold Time ^e				
Total (Allowed) Hold Time ^f				
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
b. Method 120.1
c. Method 160.1
d. Method 450.1 or 9020B
e. Method 415.1, 9020, or 9060
f. Method 150.1 or 9040
g. Method 300.0
h. Method 376.2
i. Method 300.0
j. Method 300.0

ANL-W Ground Water Monitoring S&A Data Document

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ANL-W Ground Water Monitoring - MW-12 - NON-METAL DATA

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AREA	ANL-W M-12 MONITORING WELL AGW01701ND GROUND WATER	ANL-W M-12 MONITORING WELL AGW01701ND GROUND WATER	ANL-W M-12 MONITORING WELL AGW01701SS GROUND WATER
LOCATION			
SAMPLE NUMBER			
MEDIA			
UNITS			
DATE COLLECTED			
SDG NUMBER			
FIELD MEASUREMENTS			
Depth (ft)	715	715	715
ANALYTES			
Alkalinity			
specific Conductance			
pH	8.8		
Total Dissolved Solids			308
Total Organic Halides			179
Total Organic Carbon			
Chloride			
Nitrate			
Sulfate			
Bicarbonate			
Carbonate			
Sulfide			0.10 U
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b	2(28)d	
Total (Allowed)	Hold Time ^c		3(7)d
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f	2()d	
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h		
Total (Allowed)	Hold Time ⁱ		7(7)d
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W GROUND WATER MONITORING - MW-12 - NON-METAL DATA

Page 5 of 7

AREA	ANL-W	ANL-W	ANL-W
LOCATION	M-12	M-12	M-12
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW01701C1	AGW02001ND	AGW02001ND
MEDIA	GROUND WATER	GROUND WATER	GROUND WATER
UNITS	mg/L	mg/L	mg/L
DATE COLLECTED	5-16-95	7-31-95	7-31-95
SDG NUMBER	AGW01701C2	AGW02001C2	AGW02001C2
FIELD MEASUREMENTS			
Depth (ft)	715	715	715
ANALYTICS			
Alkalinity		92.6 J	
Specific Conductance			281 J
pH			
Total Dissolved Solids		174 J	8.1 J
Total Organic Halides			
Total Organic Carbon	11.2	22.4 J	
Chloride		5.51 J	
Nitrate		15.3 J	
Sulfate			
Bicarbonate		84.4 J	
Carbonate			
Sulfide		8.2 J	
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b	8(12)d	
Total (Allowed)	Hold Time ^c		8(5)d*
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e	10(28)d	
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h	8(28)d	
Total (Allowed)	Hold Time ⁱ		8(7)d*
Total (Allowed)	Hold Time ^j		8(25)d

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-12 - NON-METAL DATA

AREA	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12
LOCATION	MONITORING WELL AGW02001S3	MONITORING WELL AGW02001T1	MONITORING WELL AGW02001TT	MONITORING WELL AGW02701HF
SAMPLE NUMBER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
MEDIA	mg/L	ug/L	mg/L	mg/L
UNITS	7-31-95	7-31-95	7-31-95	10-25-95
DATE COLLECTED	AGW02001C2	AGW02001C2	AGW02001C2	AGW02701C2
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	715	715	715	651
ANALYTES				
Alkalinity				88.4
Specific Conductance				
pH				198 J
Total Dissolved Solids				
Total Organic Halides		7.9 J		
Total Organic Carbon			0.91 J	
Chloride				20.7
Nitrate				6.1 J
Sulfate				15.3
Bicarbonate				82.5
Carbonate		0.10 U		
Sulfide				5.9
Total (Allowed)	Hold Time ^a			
Total (Allowed)	Hold Time ^b			
Total (Allowed)	Hold Time ^c			
Total (Allowed)	Hold Time ^d			
Total (Allowed)	Hold Time ^e			
Total (Allowed)	Hold Time ^f			
Total (Allowed)	Hold Time ^g			
Total (Allowed)	Hold Time ^h			
Total (Allowed)	Hold Time ⁱ			
Total (Allowed)	Hold Time ^j			

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-12 - NON-METAL DATA

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AREA	ANL-W MW-12	ANL-W MW-12	ANL-W MW-12
LOCATION	MONITORING WELL AGW02701ND	MONITORING WELL AGW02701S3	MONITORING WELL AGW02701C2
SAMPLE NUMBER	GROUND WATER	GROUND WATER	GROUND WATER
MEDIA	Units	Units	Units
UNITS	mg/cm ³	ug/L	mg/L
DATE COLLECTED	10-25-95	10-25-95	10-25-95
SDG NUMBER	AGW02701C2	AGW02701C2	AGW02701C2
FIELD MEASUREMENTS			
Depth (ft)	651	651	651
ANALYTES			
Alkalinity			
Specific Conductance	250		
pH	8.7 J		
Total Dissolved Solids			8.0 J
Total Organic Halides			0.58
Total Organic Carbon			
Chloride			
Nitrate			
Sulfate			
Bicarbonate			
Carbonate			
Sulfide			0.10 U
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b		
Total (Allowed)	Hold Time ^c		
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h		
Total (Allowed)	Hold Time ⁱ		
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1 or 9020B
- d. Method 450.1, 9020, or 9060
- e. Method 415.1, 9020, or 9040
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

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AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW01401A1	MONITORING WELL AGW01401PH	MONITORING WELL AGW01401SD	MONITORING WELL AGW01401T1
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	mg/L	mg/L	mg/L	mg/L
MEDIA	3-20-95	3-20-95	3-20-95	3-20-95
UNITS	AGW01301A1	AGW01301A1	AGW01301A1	AGW01301A1
DATE COLLECTED				
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	665	665	665	665
ANALYTES				
Attainability	138			
Specific Conductance				
pH		8.2 J	8.2	8.2
Total Dissolved Solids				
Total Organic Halides				
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed) Hold Time ^a	7(12)d			
Total (Allowed) Hold Time ^b		3(28)d		
Total (Allowed) Hold Time ^c			23(28)d	
Total (Allowed) Hold Time ^d				7(7)d
Total (Allowed) Hold Time ^e				3(1)d*
Total (Allowed) Hold Time ^f				
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

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AREA	ANL-W M-13	ANL-W M-13	ANL-W M-13
LOCATION	MONITORING WELL AGW01401TT	MONITORING WELL AGW01801HF	MONITORING WELL AGW01801HF
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER	mg/L	mg/L	mg/L
MEDIA UNITS	3-20-95	5-16-95	5-16-95
DATE COLLECTED	AGW01301A1	AGW01701C2	AGW01701C2
SDG NUMBER			
<u>FIELD MEASUREMENTS</u>			
Depth (ft)	665	665	665
ANALYTES			
Alkalinity			
specific Conductance			
pH			
Total Dissolved Solids			
Total Organic Halides			
Total Organic Carbon	0.95	21.9	29.1
Chloride			
Nitrate			
Sulfate			
Bicarbonate			
Carbonate			
Sulfide			
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b		
Total (Allowed)	Hold Time ^c		
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h		
Total (Allowed)	Hold Time ⁱ		
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

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AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW01801ND GROUND WATER	MONITORING WELL AGW01801ND GROUND WATER	MONITORING WELL AGW01801ND GROUND WATER	MONITORING WELL AGW01801ND GROUND WATER
SAMPLE NUMBER				
MEDIA	mg/L	mg/L	mg/L	mg/L
UNITS	5-16-95	5-16-95	5-16-95	5-16-95
DATE COLLECTED	AGW01701C2	AGW01701C2	AGW01701C2	AGW01701C2
SDG NUMBER				
FIELD MEASUREMENTS				
Depth (ft)	665	665	665	665
ANALYTES				
Attattivity				
Specific Conductance				437
pH				
Total Dissolved Solids			8.2	
Total Organic Halides				
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate		134		
Carbonate				
Sulfide			2.0 u	
Total (Allowed) Hold Time ^a		3(14)d	3(14)d	2(28)d
Total (Allowed) Hold Time ^b				3(7)d
Total (Allowed) Hold Time ^c				
Total (Allowed) Hold Time ^d				
Total (Allowed) Hold Time ^e				
Total (Allowed) Hold Time ^f				
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

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AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW01801S3 GROUND WATER	MONITORING WELL AGW01801T1 GROUND WATER	MONITORING WELL AGW02101HF GROUND WATER
SAMPLE NUMBER	mg/L	ug/L	mg/L
MEDIA	5-16-95	5-16-95	5-16-95
UNITS	AGW01701C2	AGW01701C2	AGW01701C2
DATE COLLECTED			7-31-95
SDG NUMBER			AGW02001C2
FIELD MEASUREMENTS			
Depth (ft)	665	665	643
ANALYTES			
Alkalinity			138 J
specific Conductance			
pH			243 J
Total Dissolved Solids		10.6	
Total Organic Halides			
Total Organic Carbon		1.2	22.1 J
Chloride			6.2 J
Nitrate			25.1 J
Sulfate			
Bicarbonate			138 J
Carbonate			
Sulfide	0.10 U		1.0 UJ
Total (Allowed)	Hold Time ^a		8(12)d
Total (Allowed)	Hold Time ^b		8(5)d*
Total (Allowed)	Hold Time ^c		
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g		
Total (Allowed)	Hold Time ^h		
Total (Allowed)	Hold Time ⁱ		
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

AREA	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13	ANL-W MW-13
LOCATION	MONITORING WELL AGW02101ND	MONITORING WELL AGW02101S3	MONITORING WELL AGW02101T1	MONITORING WELL AGW02101T2
TYPE OF LOCATION	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE NUMBER				
MEDIA				
UNITS				
DATE COLLECTED	7-31-95	7-31-95	7-31-95	7-31-95
SDG NUMBER	AGW02001C2	AGW02001C2	AGW02001C2	AGW02001C2
FIELD MEASUREMENTS				
Depth (ft)	64.3	64.3	64.3	64.3
ANALYTES				
Alkalinity				
Specific Conductance				
pH	8.0 J		4.14 J	
Total Dissolved Solids				
Total Organic Halides			33.9 J	
Total Organic Carbon				
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Sulfide				
Total (Allowed) Hold Time ^a				
Total (Allowed) Hold Time ^b				
Total (Allowed) Hold Time ^c				
Total (Allowed) Hold Time ^d				
Total (Allowed) Hold Time ^e				
Total (Allowed) Hold Time ^f				
Total (Allowed) Hold Time ^g				
Total (Allowed) Hold Time ^h				
Total (Allowed) Hold Time ⁱ				
Total (Allowed) Hold Time ^j				

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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 ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

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AREA	ANL-W M-13	ANL-W M-13	ANL-W M-13
LOCATION	MONITORING WELL AGW02801HF	MONITORING WELL AGW02801ND	MONITORING WELL AGW02801ND
SAMPLE NUMBER	GROUND WATER mg/L	GROUND WATER mg/L	GROUND WATER mg/L
MEDIA			
UNITS			
DATE COLLECTED	10-25-95	10-25-95	10-25-95
SDG NUMBER	AGW02701C2	AGW02701C2	AGW02701C2
FIELD MEASUREMENTS			
Depth (ft)	642	642	642
ANALYTICS			
Alkalinity	138		
Specific Conductance		368	
pH		8.2 J	
Total Dissolved Solids			
Total Organic Halides			
Total Organic Carbon	22.2		
Chloride	7.34 J		
Nitrate	27.0		
Sulfate		138	
Bicarbonate			
Carbonate		2.0 U	
Sulfide			0.10 U
Total (Allowed)	Hold Time ^a		
Total (Allowed)	Hold Time ^b	7(12)d	
Total (Allowed)	Hold Time ^c		7(5)d*
Total (Allowed)	Hold Time ^d		
Total (Allowed)	Hold Time ^e		
Total (Allowed)	Hold Time ^f		
Total (Allowed)	Hold Time ^g	5(28)d	
Total (Allowed)	Hold Time ^h		5(2)d*
Total (Allowed)	Hold Time ⁱ		5(25)d
Total (Allowed)	Hold Time ^j		

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9060
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

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ANL-W GROUND WATER MONITORING - MW-13 - NON-METAL DATA

Page 7 of 7

AREA	ANL-W	ANL-W
LOCATION	M-13	M-13
TYPE OF LOCATION	MONITORING WELL	MONITORING WELL
SAMPLE NUMBER	AGW02801T1	AGW02801TT
MEDIA	GROUND WATER	GROUND WATER
UNITS	ug/L	mg/L
DATE COLLECTED	10-25-95	10-25-95
SDG NUMBER	AGW02701C2	AGW02701C2
<u>FIELD MEASUREMENTS</u>		
Depth (ft)	642	642
<u>ANALYTES</u>		
Atmospheric		
Specific Conductance		
pH		
Total Dissolved Solids	43.8	J
Total Organic Halides		
Total Organic Carbon		1.1
Chloride		
Nitrate		
Sulfate		
Bicarbonate		
Carbonate		
Sulfide		
Total (Allowed)	Hold Time ^a	
Total (Allowed)	Hold Time ^b	
Total (Allowed)	Hold Time ^c	
Total (Allowed)	Hold Time ^d	
Total (Allowed)	Hold Time ^e	
Total (Allowed)	Hold Time ^f	
Total (Allowed)	Hold Time ^g	
Total (Allowed)	Hold Time ^h	
Total (Allowed)	Hold Time ⁱ	
Total (Allowed)	Hold Time ^j	

- a. Method 310.1
- b. Method 120.1
- c. Method 160.1
- d. Method 450.1 or 9020B
- e. Method 415.1, 9020, or 9040
- f. Method 150.1 or 9040
- g. Method 300.0
- h. Method 376.2
- i. Method 300.0
- j. Method 300.0

ANL-W Ground Water Monitoring S\$A Data Document

ANL-W GROUND WATER MONITORING

EBR-II #1

1994/19

Method Validation Level A

LOCATION EBR-II #1

MONITORING WELL

GROUNd WATER

6/8/95

AGW01001A1

NON-METAL DATA

DATE COLLECTED SDG NUMBER

FIELD MEASUREMENTS

Depth (ft)

725

725

ANALyTES

Alkalinity

Specific Conductance

pH

Total Dissolved Solids

Total Organic Halides

Total Organic Carbon

Chloride

Nitrate

Sulfate

Bicarbonate

Carbonate

Sulfide

SAMPLE NUMBER

AGW01001A1

AGW01001 SD

AGW01001C

AGW02401 ND

AGW02401 ND

AGW02401 ND

AGW02401 ND

AGW02401 ND

AGW02401 T1

AGW02401 TT

AGW02401 HF

AGW02401 HF

AGW02401 HF

AGW02401 HF

AGW02401 ND

ANL-W Ground Water Monitoring S&A Data Document

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-- EBR-II #2 -- NON-METAL DATA

AREA	ANL-W	LOCATION	EBR-II #2	TYPE OF LOCATION	MONITORING WELL	MEDIA	GROUND WATER	DATE COLLECTED	6/19/94	SDG NUMBER	AGW00201A1	DATE	8/9/95	NON-METAL DATA	AGW02301HF
FIELD MEASUREMENTS															
Depth (ft)	726	726													
ANALYTES		UNITS		SAMPLE NUMBER		UNITS		SAMPLE NUMBER		UNITS		SAMPLE NUMBER			
Alkalinity	138000 ug/L	ug/L	AGW00201A1	131 mg/L	AGW01101A1	137 mg/L	AGW02501ND								
Specific Conductance	95200 umhos/c	umhos/c	AGW00201A2	377 umhos/c	AGW01101SD	367 umhos/c	AGW02601ND								
pH	7.86		AGW00201A3	8.1	AGW01101PH	8	AGW02501ND								
Total Dissolved Solids	240000 J	ug/L	AGW00201A4	233 mg/L	AGW01101T7	171 J mg/L	AGW02601ND								
Total Organic Halides	8.5 J	ug/L	AGW00201T1	26.6 ug/L	AGW01101T1	7.7 ug/L	AGW02501T1								
Total Organic Carbon	33900 ug/L	ug/L	AGW00201TT	3.4 mg/L	AGW01101TT	1.4 mg/L	AGW02601TT								
Chloride						19.5 mg/L	AGW02501HF								
Nitrate						6.58 J mg/L	AGW02601HF								
Sulfate						16.8 mg/L	AGW02501HF								
Bicarbonate						13.7 mg/L	AGW02601ND								
Carbonate						2.0 U mg/L	AGW02601ND								
Sulfide															
Total (Allowed) Hold Time(a)	6(14)d														
Total (Allowed) Hold Time(b)	26(28)d														
Total (Allowed) Hold Time(c)	8(7)d*														
Total (Allowed) Hold Time(d)	22(28)d														
Total (Allowed) Hold Time(e)	16(28)d														
Total (Allowed) Hold Time(f)	8(10)d														
Total (Allowed) Hold Time(g)															
Total (Allowed) Hold Time(h)															
Total (Allowed) Hold Time(i)															
Total (Allowed) Hold Time(j)															

ANL-W Ground Water Monitoring S&A Data Document -

1994/19 ..

Method Validation Level A

ANL-W GROUND WATER MONITORING ..

MW-11

.. MW-11

AREA
LOCATION
TYPE OF LOCATION
MEDIA
DATE COLLECTED
SDG NUMBER

ANL-W
M-11
MONITORING WELL
GROUND WATER
4/13/94
AGW00301A1

FIELD MEASUREMENTS

Depth (ft): 638

ANALYTES	UNITS	SAMPLE NUMBER	UNITS	SAMPLE NUMBER
Alkalinity	136000 ug/L	AGW00301A1	136 mg/L	AGW01201A1
Specific Conductance	357 umhos/c	AGW00301A2	364 umhos/c	AGW01201SD
pH	7.86	AGW00301A3	8.0 J	AGW01201PH
Total Dissolved Solids	276000 ug/L	AGW00301A4	271 mg/L	AGW01201T7
Total Organic Halides	46.2/82 ug/L	AGW00301A5	9.8 ug/L	AGW01201T1
Total Organic Carbon	3700 ug/L	AGW00301A6	6.3 mg/L	AGW01201TT
Chloride				
Nitrate				
Sulfate				
Bicarbonate				
Carbonate				
Surface				
Total (Allowed) Hold Time(a)	7(14)d		10(14)d	7(14)d
Total (Allowed) Hold Time(b)	12(28)d		3(28)d	2(28)d
Total (Allowed) Hold Time(c)	6(7)d		3(7)d	3(7)d
Total (Allowed) Hold Time(d)	15(28)d	15(28)d	8(28)d	7(28)d
Total (Allowed) Hold Time(e)	6(7)d		17(28)d	2(1)d
Total (Allowed) Hold Time(f)	7(1)d		3(1)d*	3(28)d
Total (Allowed) Hold Time(g)				3(2)d*
Total (Allowed) Hold Time(h)				3(28)d
Total (Allowed) Hold Time(i)				3(1)d
Total (Allowed) Hold Time(j)				3(28)d

10/25/95
AGW02701C2

651

UNITS	SAMPLE NUMBER
88.4 mg/L	AGW02701ND
250 umhos/c	AGW02701ND
8.7 J	AGW02701ND
198 J	AGW02701ND
8.0 J	AGW02701T1
0.58 mg/L	AGW02701TT
20.7 mg/L	AGW02701HF
6.1 J	AGW02701HF
16.3 mg/L	AGW02701HF
82.5 mg/L	AGW02701ND
6.9 mg/L	AGW02701ND
0.1 U	AGW02701S3

7(12)d
6(28)d
7(5)d*
22(28)d
8(28)d
3(1)d*
5(28)d
7(7)d
5(2)d*
5(25)d

ANL-W Ground Water Monitoring S&A Data Document

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ANL-W GROUND WATER MONITORING -- MW-12 -- NON-METAL DATA

AREA	ANL-W	ANL-W					
LOCATION	ANL-W	M-12					
TYPE OF LOCATION	MONITORING WELL						
MEDIA	GROUND WATER						
DATE COLLECTED	4/12/94						
SDG NUMBER	AGW00301A1						
FIELD MEASUREMENTS [ft]							
Depth (ft)	660						
ANALYTES		UNITS	SAMPLE NUMBER				
Alkalinity	68000 ug/L	mg/L	AGW01301A1	88.5 mg/L	Sample Number	92.6 J mg/L	Units
Specific Conductance	235 umhos/c	umhos/c	AGW01301SD	308 umhos/c	AGW01701 ND	28 J umhos/c	AGW02001ND
pH	8.1	J	AGW01301A1	8.8	AGW01701 ND	8.1 J	AGW02001ND
Total Dissolved Solids	178000 ug/L	mg/L	AGW00401A1	179 mg/L	AGW01701 ND	174 J mg/L	AGW02001ND
Total Organic Halides							
Total Organic Carbon	4100 ug/L	mg/L	AGW00401TT	7.2 ug/L	AGW01701T1	7.9 J ug/L	AGW02001T1
Chloride							
Nitrate							
Sulfate							
Bicarbonate							
Carbonate							
Sulfide							
Total (Allowed) Hold Time(a)	8(14)d						
Total (Allowed) Hold Time(b)	1(128)d						
Total (Allowed) Hold Time(c)	7(7)d						
Total (Allowed) Hold Time(d)							
Total (Allowed) Hold Time(e)							
Total (Allowed) Hold Time(f)							
Total (Allowed) Hold Time(g)							
Total (Allowed) Hold Time(h)							
Total (Allowed) Hold Time(i)							
Total (Allowed) Hold Time(j)							

ANL-W Ground Water Monitoring S&A Data Document							1994/19	Method Validation Level A
ANL-W GROUND WATER MONITORING			MW-13	..	NON-METAL DATA			
AREA	ANL-W	..	..	..	..	..	..	..
LOCATION	ANL-W	M-3	..	..	..	..	..	..
TYPE OF LOCATION	MONITORING WELL	..	..	..	..	..	..	..
MEDIA	GROUND WATER	..	..	..	..	..	..	..
DATE COLLECTED	3/20/95	..	..	..	..	..	..	..
SDG NUMBER	AGW01301A1	..	..	..	..	..	..	..
<u>FIELD MEASUREMENTS (ft)</u>		Depth (ft)		665		665		
ANALYTES	..	..	..	..	..	..	..	..
ANALYTIC	..	..	..	..	..	..	..	..
Alkalinity	1.3 mg/L	..	SAMPLE NUMBER	..	..	..	..	..
Specific Conductance	4.20 umhos/c	..	AGW01401A1	..	..	..	..	..
pH	8.2	J	AGW01401SD	..	..	..	..	..
Total Dissolved Solids	25 mg/L	..	AGW01401PH	..	..	..	..	..
Total Organic Halides	9.7 ug/L	..	AGW01401T7	..	..	..	..	..
Total Organic Carbon	0.95 mg/L	..	AGW01401TT	..	..	..	..	..
Chloride	21.8 mg/L	..	..	..	..	..	..	..
Nitrate	1.6 mg-n/L	..	..	..	..	..	..	..
Sulfate	29.1 mg/L	..	..	..	..	..	..	..
Bicarbonate	134 mg/L	..	..	..	..	..	..	..
Carbonate	2.0 U mg/L	..	..	..	..	..	..	..
Sulfide	0.1 U mg/L	..	..	..	..	..	..	..
Total (Allowed) Hold Time(a)	7(12)d	..	SAMPLE	..	..	..	..	..
Total (Allowed) Hold Time(b)	3(28)d	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(c)	7(7)d	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(d)	2(28)d	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(e)	14(28)d	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(f)	3(11)d*	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(g)	..	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(h)	..	..	AGW018	..	..	..	..	..
Total (Allowed) Hold Time(i)	..	..	AGW018	..	..	..	..	..